MEX-5DI

SERVICE MANUAL

Ver 1.0 2002. 04

US Model
Canadian Model
AEP Model
UK Model
E Model

• The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	CDX-MP70
CD Drive Mechanism Type	MG-550T-156
Optical Pick-up Name	DAX-23E

SPECIFICATIONS

CD player section

Signal-to-noise ratio	95 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit

MS section

Signal-to-noise ratio	90 dB
Frequency response	10 – 20,000 Hz

Tuner section

FM

Tuning range	87.5 – 107.9 MHz (US, Canadian Model) 87.5 – 108.0 MHz (AEP, UK, E Model)
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz/450 kHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	66 dB (stereo), 72 dB (mono)
Harmonic distortion at 1 kHz	0.6% (stereo), 0.3% (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

AM (US, Canadian Model)

Tuning range	530 – 1,710 kHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	30 µV

MW/LW (AEP, UK, E Model)

Tuning range	MW : 531 – 1,602 kHz LW : 153 – 279 kHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	MW : 30 µV LW : 40 µV

General

Outputs	Audio outputs (front/rear) Subwoofer output (mono) Power antenna relay control terminal Power amplifier control terminal
Inputs	Telephone ATT control terminal Illumination control terminal BUS control input terminal BUS audio input/AUX IN terminal Antenna input terminal
Tone controls	Bass ±8 dB at 100 Hz Treble ±8 dB at 10 kHz
Loudness	+8 dB at 100 Hz +2 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 178 mm (7 1/8 × 2 × 7 1/8 in.) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 157 mm (7 1/4 × 2 1/8 × 6 1/4 in.) (w/h/d)

– Continued on next page –

MG-MS/FM/AM COMPACT DISC PLAYER

US, Canadian Model

MG-MS/FM/MW/LW COMPACT DISC PLAYER

AEP, UK, E Model

9-874-009-01
2002D0400-1
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Sony Corporation
e Vehicle Company
Published by Sony Engineering Corporation

SONY®

Mass	Approx. 1.7 kg (3 lb. 12 oz.)
Supplied accessories	Parts for installation and connections (1 set) Front panel cover (1) Card remote commander RM-X131 (US, Canadian Model) Card remote commander RM-X132 (AEP, UK, E Model)

US and foreign patents licensed from Dolby Laboratories.

Note
This unit cannot be connected to a digital preamplifier or an equalizer.

Design and specifications are subject to change without notice.

SERVICE NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

- AEP, UK model

CLASS 1
LASER PRODUCT

This label is located on the bottom of the chassis.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

TEST DISCS

This set can playback CD-R and CD-ROM discs. The following test discs should be used to check the capability:

CD-R test disc TCD-R082LMT (Part No. J-2502-063-1)
CD-RW test disc TCD-W082L (Part No. J-2502-063-2)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

Notes on CD-Rs (recordable CDs)/CD-RWs (rewritable CDs)

This unit can play the following discs:

Type of discs	Label on the disc
Audio CD	COMPACT disc DIGITAL AUDIO Recordable COMPACT disc DIGITAL AUDIO ReWritable
MP3 files	COMPACT disc DIGITAL AUDIO Recordable COMPACT disc DIGITAL AUDIO ReWritable COMPACT disc Recordable COMPACT disc ReWritable

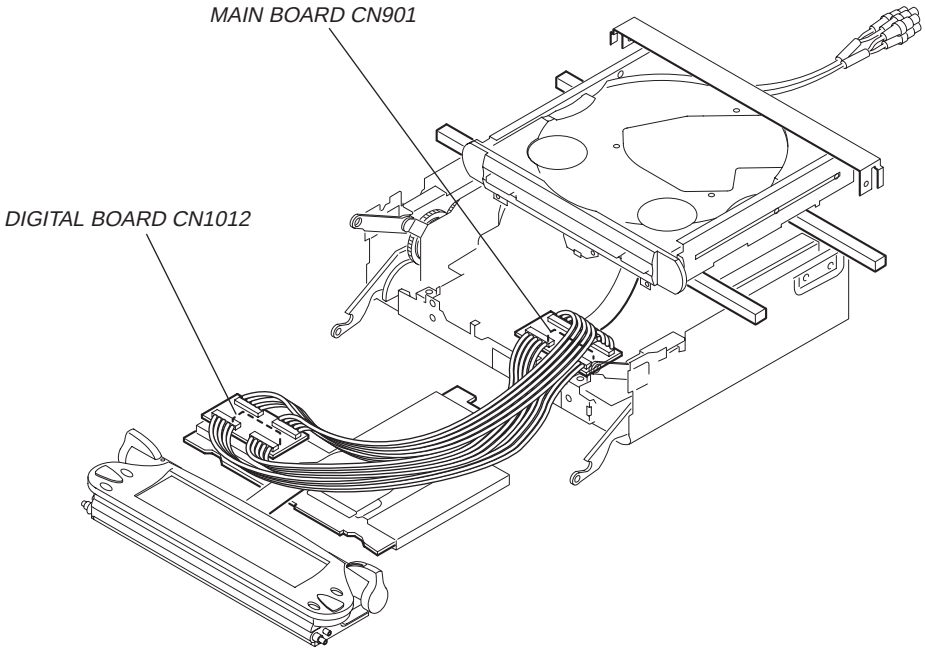
- Some CD-Rs/CD-RWs (depending on the equipment used for its recording or the condition of the disc) may not play on this unit.
- You cannot play a CD-R/CD-RW that is not finalized*.
- You can play MP3 files recorded on CD-ROMs, CD-Rs, and CD-RWs.
- A CD-R/CD-RW to which a session can be added can be played.

* A process necessary for a recorded CD-R/CD-RW disc to be played on the audio CD player.

EXTENSION CABLE AND SERVICE POSITION

When repairing or servicing this set, connect the jig (extension cable) as shown below.

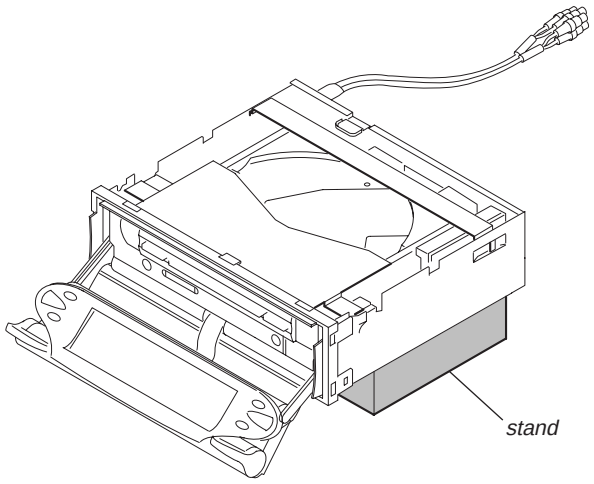
- Connect the MAIN board (CN901) and the DIGITAL board (CN1012) with the extension cable (Part No. J-2502-068-1).



NOTE FOR THE OPENING OF THE FRONT PANEL

In this set, the front panel is lowered to below the bottom face when it is opened.

When servicing the set, place it on a stand having a height of about 2 cm.



FORCED FRONT PANEL OPEN/CLOSE

The front panel is forced to OPEN/CLOSE at the timing that the power (ACC) is turned off.

If the OPEN/CLOSE button for the front panel is not effective, the following method is used:

With the front panel open: The front panel is closed when ACC is switched from ON to OFF edge.

With the front panel closed: The front panel is opened when ACC is switched from ON to OFF edge.

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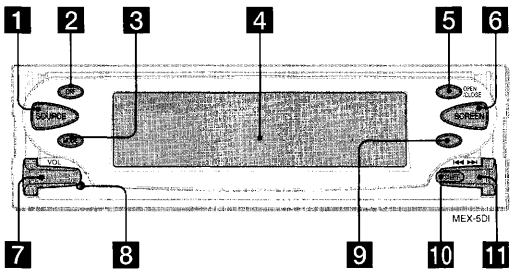
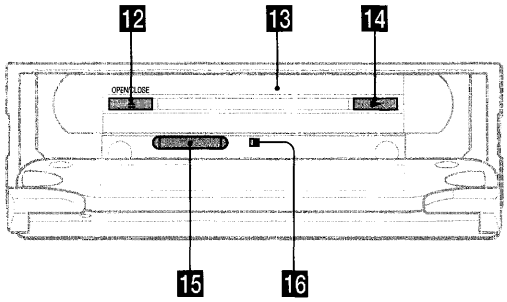
SECTION 1
GENERAL

This section is extracted from instruction manual.

Location of controls





Refer to the pages listed for details.

1. **SOURCE (Power on/Radio/CD/MG-MS/MD/AUX*1) button**
   To select the source.
2. **OFF (Stop/Power off) button***2 10, 13, 14, 21, 22, 44
3. **MODE button**
   To change the operation.
4. **Display window**
5. **OPEN/CLOSE button** 10, 11, 12, 13, 21
   Tap to:
   Open/close the front panel.
   Press and hold to:
   Open the front panel and the disc tray.
6. **SCREEN button**
   To select the display mode.
7. **VOL (volume) control lever**
8. **Reset button** 20
9. **Receptor for the card remote commander and wireless rotary commander**
10. **SHIFT (switching shift 1-3) button**
    To change the function of the ⏮ ⏭ lever (11).
11. **⏮ ⏭ lever**
    Selecting radio stations, the items to be adjusted, the desired image.
12. **⏏ (eject) OPEN/CLOSE button** 10, 11, 21
    To eject a disc, open/close the disc tray.
13. **Disc tray**
14. **► (play) button** 10, 21
15. **"Memory Stick" slot**
16. **"Memory Stick" access lamp**

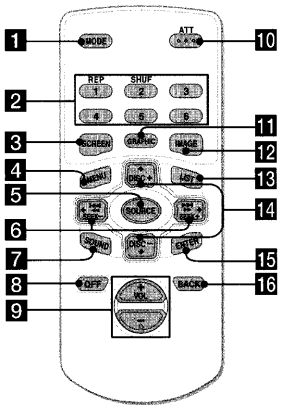
*1 When an optional CD/MD unit is connected, "AUX" is not displayed.

*2 **Warning**
when installing in a car without an ACC (accessory) position on the ignition switch
After turning off the ignition, be sure to press (OFF) on the unit for 2 seconds to turn off the clock display.
Otherwise, the clock display does not turn off and causes battery drain.

continue to next page →

(US, Canadian Model)

Card remote commander RM-X131



The corresponding buttons of the card remote commander control the same functions as those on this unit.

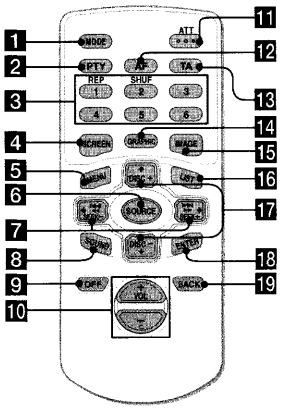
1. **MODE button**
2. **Number buttons**
   ① **REP**
   ② **SHUF**
   To store stations, receive stored stations.
3. **SCREEN button**
4. **MENU button**
   To display the general menus.
5. **SOURCE button**
6. **⬅/➡ (SEEK –/+) buttons**
7. **SOUND button**
   To display the sound menus.
8. **OFF button**
9. **VOL (+/–) buttons**
10. **ATT button**
11. **GRAPHIC button**
    To display the graphic menus.
12. **IMAGE button**
    To switch the display patterns.
13. **LIST button**
14. **⬆/⬇ (DISC +/–) buttons**
15. **ENTER button**
16. **BACK button**

Note
If the unit is turned off by pressing (OFF) for 2 seconds, it cannot be operated with the card remote commander unless (SOURCE) on the unit is pressed to reactivate the unit first.

Tip
See "Replacing the lithium battery" on page 45 for details on how to replace the batteries.

(AEP, UK, E Model)

Card remote commander RM-X132



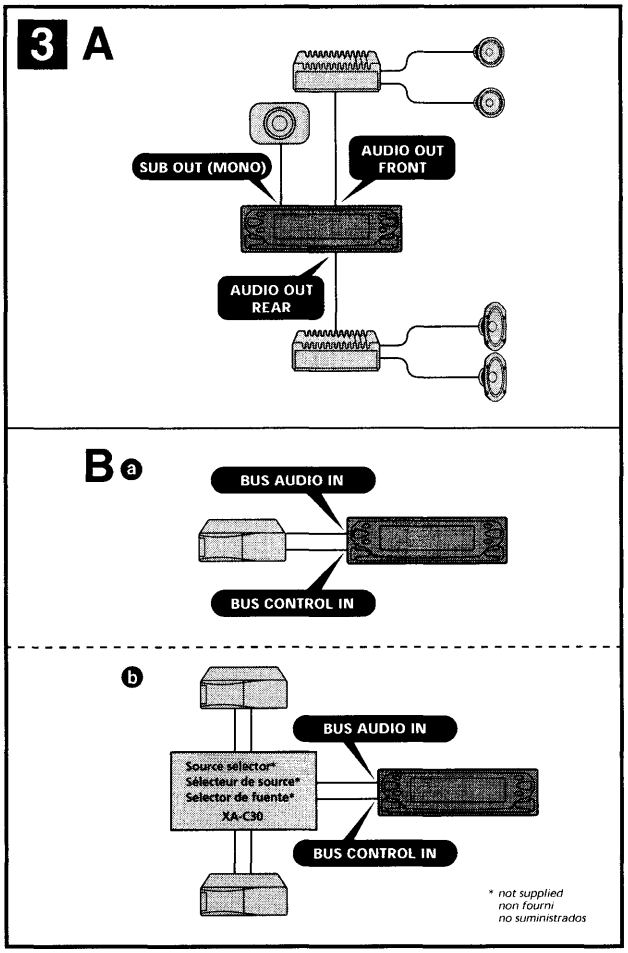
The corresponding buttons of the card remote commander control the same functions as those on this unit.

1. **MODE button**
2. **PTY button**
3. **Number buttons**
   ① **REP**
   ② **SHUF**
   To store stations, receive stored stations.
4. **SCREEN button**
5. **MENU button**
   To display the general menus.
6. **SOURCE button**
7. **⬅/➡ (SEEK –/+) buttons**
8. **SOUND button**
   To display the sound menus.
9. **OFF button**
10. **VOL (+/–) buttons**
11. **ATT button**
12. **AF button**
13. **TA button**
14. **GRAPHIC button**
    To display the graphic menus.
15. **IMAGE button**
    To switch the display patterns.
16. **LIST button**
17. **⬆/⬇ (DISC +/–) buttons**
18. **ENTER button**
19. **BACK button**

Note
If the unit is turned off by pressing (OFF) for 2 seconds, it cannot be operated with the card remote commander unless (SOURCE) on the unit is pressed to reactivate the unit first.

Tip
See "Replacing the lithium battery" on page 48 for details on how to replace the batteries.

Connections



Connection example (3)

Note **(3-A)**
Be sure to connect the ground cord before connecting the amplifier.

Tip **(3-B-b)**
For connecting two or more CD/MD changers, the source selector XA-C30 (optional) is necessary.

Exemple de raccordement (3)

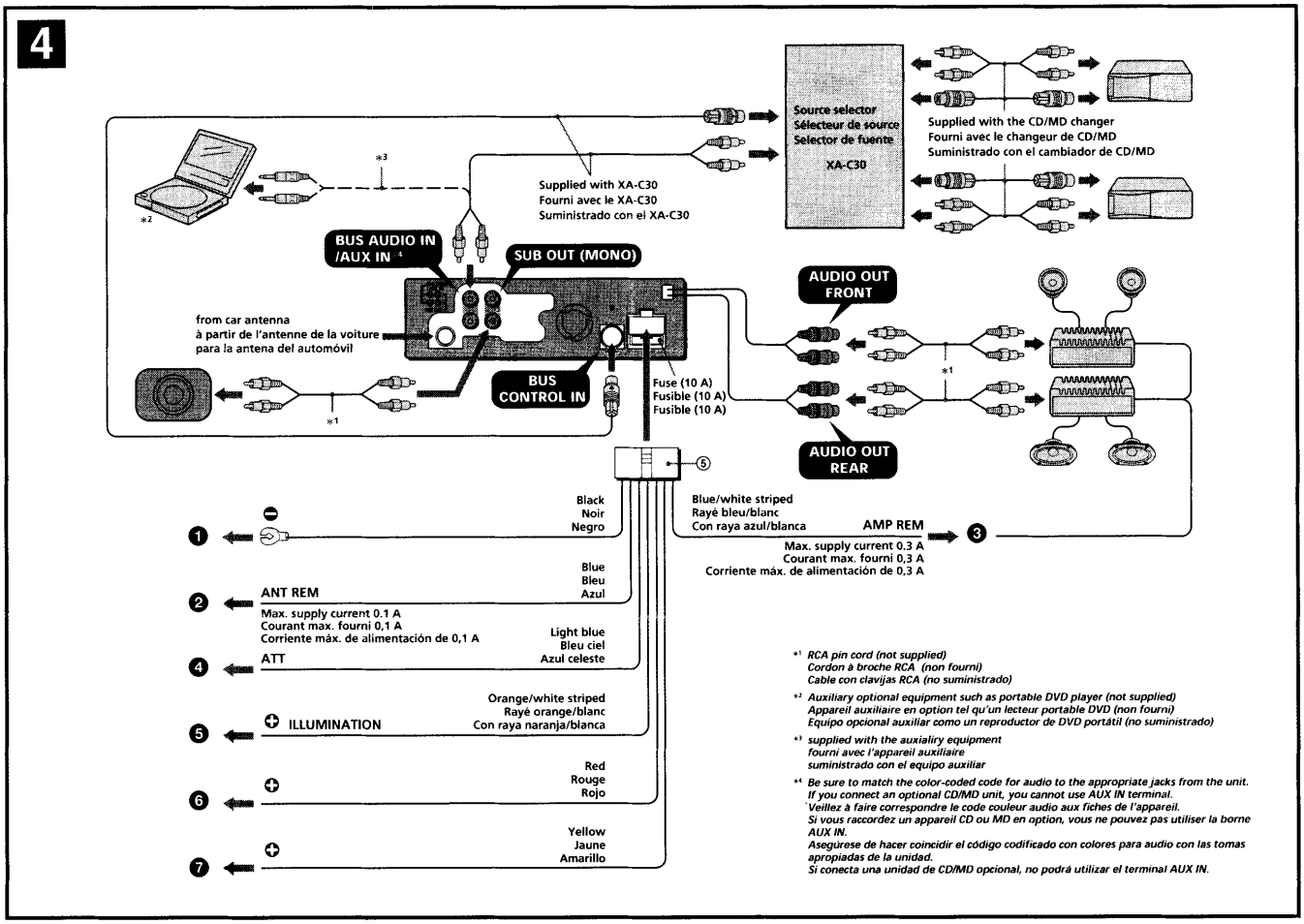
Remarque **(3-A)**
Raccordez d'abord le fil de masse avant de raccorder l'amplificateur.

Conseil **(3-B-b)**
Dans le cas du raccordement de deux changeurs de CD/MD ou plus, le sélecteur de source XA-C30 (en option) est indispensable.

Ejemplo de conexiones (3)

Nota **(3-A)**
Asegúrese de conectar primero el cable de puesta a masa antes de realizar la conexión al amplificador.

Consejo **(3-B-b)**
Si desea conectar dos o más cambiadores de CD/MD, necesitará el selector de fuente XA-C30 (opcional).



*1 *RCA pin cord (not supplied)*
Cordon à broche RCA (non fourni)
Cable con clavijas RCA (no suministrado)

*2 *Auxiliary optional equipment such as portable DVD player (not supplied)*
Appareil auxiliaire en option tel qu'un lecteur portable DVD (non fourni)
Equipo opcional auxiliar como un reproductor de DVD portátil (no suministrado)

*3 *supplied with the auxialiry equipment*
fourni avec l'appareil auxiliaire
suministrado con el equipo auxiliar

*4 *Be sure to match the color-coded code for audio to the appropriate jacks from the unit. If you connect an optional CD/MD unit, you cannot use AUX IN terminal.*
Veillez à faire correspondre le code couleur audio aux fiches de l'appareil. Si vous raccordez un appareil CD ou MD en option, vous ne pouvez pas utiliser la borne AUX IN.
Asegúrese de hacer coincidir el código codificado con colores para audio con las tomas apropiadas de la unidad. Si conecta una unidad de CD/MD opcional, no podrá utilizar el terminal AUX IN.

Connection diagram (4)

❶ **To a metal surface of the car**
First connect the black ground lead, then connect the yellow and red power input leads.

❷ **To the power antenna control lead or power supply lead of antenna booster amplifier**
Notes
- *It is not necessary to connect this lead if there is no power antenna or antenna booster, or with a manually-operated telescopic antenna.*
- *When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."*

❸ **To AMP REMOTE IN of an optional power amplifier**
This connection is only for amplifiers. Connecting any other system may damage the unit.

❹ **To the interface cable of a car telephone**

❺ **To a car's illumination signal**
Be sure to connect the black ground lead to it first.

❻ **To the +12 V power terminal which is energized in the accessory position of the ignition key switch**
Notes
- *If there is no accessory position, connect to the +12 V power (battery) terminal which is energised at all times. Be sure to connect the black ground lead to it first.*
- *When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."*

❼ **To the +12 V power terminal which is energised at all times**
Be sure to connect the black ground lead to it first.

Notes on the control and power supply leads
- *The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner.*
- *When your car has built-in FM/AM antenna in the rear/side glass, connect the power antenna control lead (blue) or the accessory power input lead (red) to the power terminal of the existing antenna booster. For details, consult your dealer.*
- *A power antenna without relay box cannot be used with this unit.*

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Schéma de raccordement (4)

❶ **À un point métallique de la voiture**
Branchez d'abord le fil de masse noir et, ensuite, les fils d'entrée d'alimentation jaune et rouge.

❷ **Vers le fil de commande de l'antenne électrique ou le fil d'alimentation de l'amplificateur d'antenne**
Remarques
- *Il n'est pas nécessaire de raccorder ce fil s'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, ou avec une antenne télescopique manuelle.*
- *Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir "Remarques sur les fils de commande et d'alimentation".*

❸ **Vers AMP REMOTE IN de l'amplificateur de puissance en option**
Ce raccordement s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.

❹ **Vers le câble d'interface d'un téléphone de voiture**

❺ **Au signal d'éclairage de la voiture**
Raccordez d'abord le fil de masse noir.

❻ **À la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoires**
Remarques
- *S'il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est alimentée en permanence. Raccordez d'abord le fil de masse noir.*
- *Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir "Remarques sur les fils de commande et d'alimentation".*

❼ **À la borne +12 V qui est alimentée en permanence**
Raccordez d'abord le fil de masse noir.

Remarques sur les fils de commande et d'alimentation
- *Le fil de commande de l'antenne électrique (bleu) fournit une alimentation de +12 V CC lorsque vous mettez la radio sous tension.*
- *Lorsque votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, raccordez le fil de commande de l'antenne (bleu) ou le fil d'entrée d'alimentation des accessoires (rouge) à la borne de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre détaillant.*
- *Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.*

Raccordement pour la conservation de la mémoire
Lorsque le fil d'entrée d'alimentation jaune est raccordé, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

Diagramas de conexión (4)

❶ **A una superficie metálica del automóvil**
Conecte primero el cable de masa negro, y después los cables amarillo y rojo de entrada de alimentación.

❷ **Para conectar al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de antena**
Notas
- *Si no se dispone de antena motorizada ni de amplificador de antena o si utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.*
- *Si el automóvil incorpora una antena de FM/AM en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

❸ **Para conectar a AMP REMOTE IN del amplificador de potencia opcional**
Esta conexión es sólo para amplificadores. La conexión de cualquier otro sistema puede dañar la unidad.

❹ **Para conectar al cable de interfaz de un teléfono para automóvil**

❺ **A una señal de iluminación del automóvil**
Asegúrese de conectar primero el cable de masa negro.

❻ **Para conectar al terminal de alimentación de +12 V que recibe energía en la posición de accesorios del interruptor de la llave de encendido**
Notas
- *Si no hay posición de accesorios, conéctelo al terminal de alimentación (batería) de +12 V que recibe energía sin interrupción. Asegúrese de conectar primero el cable de masa negro.*
- *Si el automóvil incorpora una antena de FM/AM en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

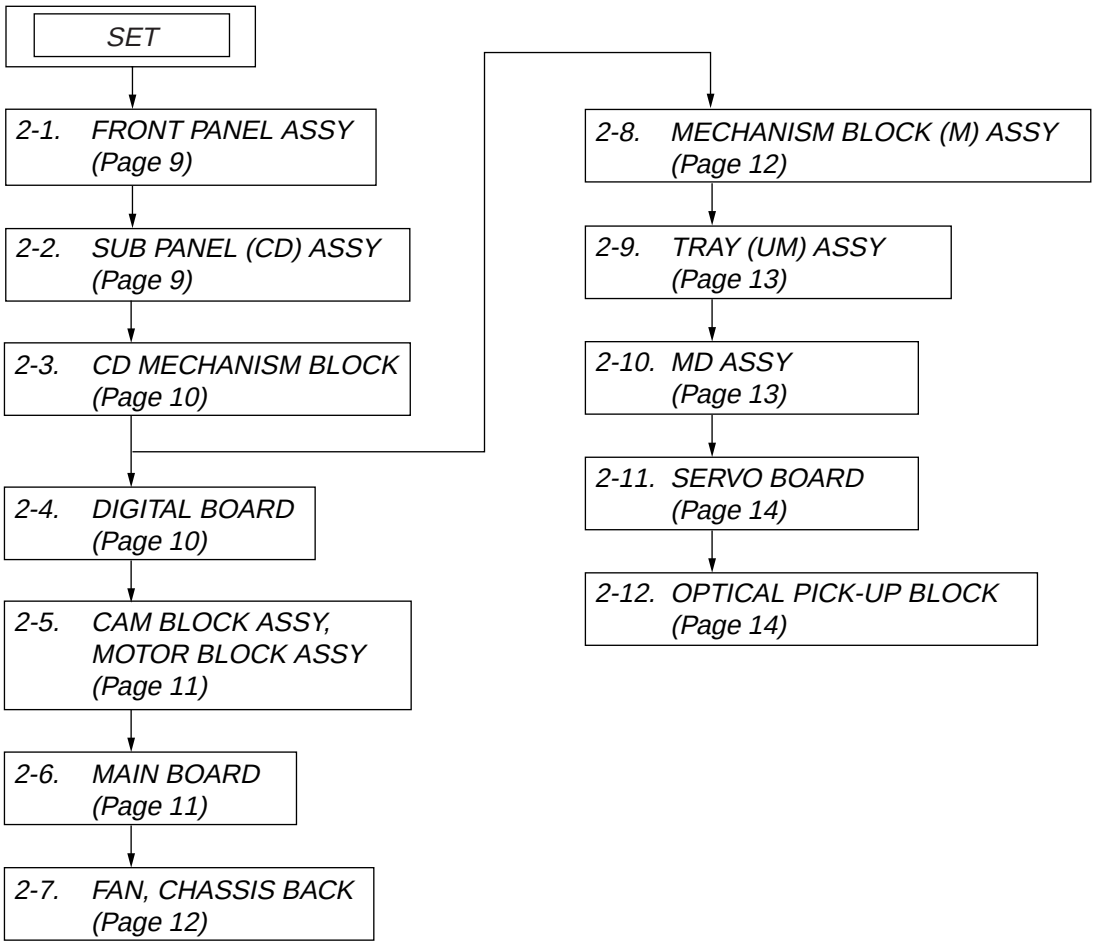
❼ **Para conectar al terminal de alimentación de +12 V que recibe energía sin interrupción**
Asegúrese de conectar primero el cable de masa negro.

Notas sobre los cables de control y de fuente de alimentación
- *El conductor de control de la antena motorizada (azul) suministrará cc +12 V cuando conecte la alimentación del sintonizador.*
- *Si el automóvil dispone de una antena de FM/AM incorporada en el cristal trasero o lateral, conecte el cable de control de antena motorizada (azul) o el cable de entrada de alimentación auxiliar (rojo) al terminal de alimentación del amplificador de antena existente. Para obtener información detallada, consulte a su proveedor.*
- *Con esta unidad no es posible utilizar una antena motorizada sin caja de relé.*

Conexión para protección de la memoria
Si conecta el conductor de entrada amarillo, el circuito de la memoria recibirá siempre alimentación, incluso aunque ponga la llave de encendido en la posición OFF.

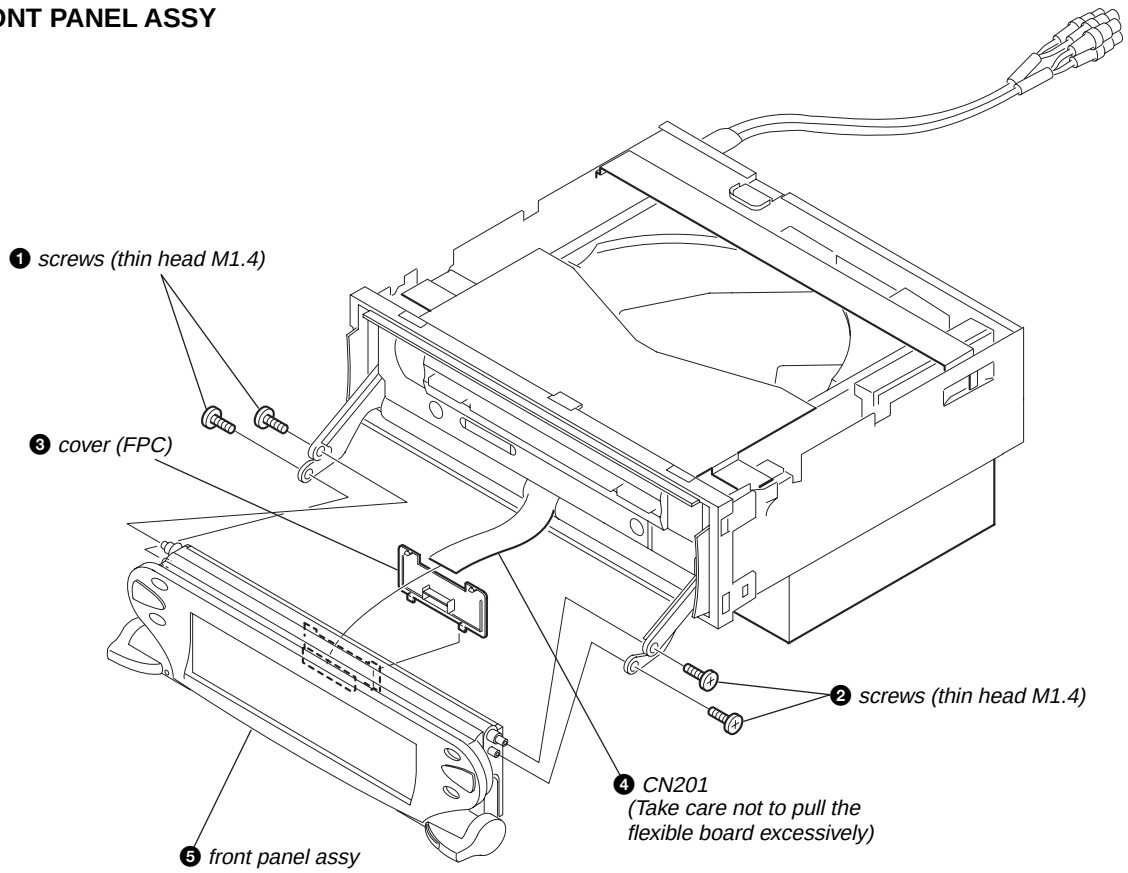
SECTION 2
DISASSEMBLY

Note : This set can be disassemble according to the following sequence.

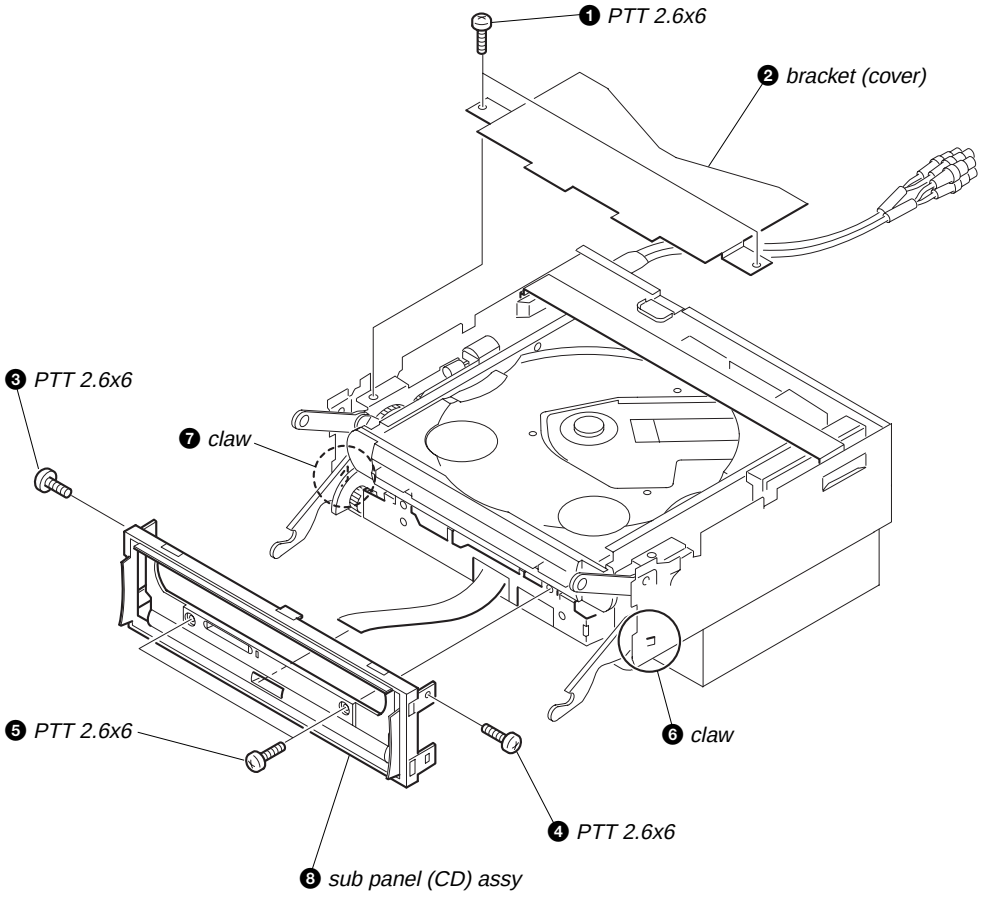

SET
2-1. FRONT PANEL ASSY (Page 9)
2-2. SUB PANEL (CD) ASSY (Page 9)
2-3. CD MECHANISM BLOCK (Page 10)
2-4. DIGITAL BOARD (Page 10)
2-5. CAM BLOCK ASSY, MOTOR BLOCK ASSY (Page 11)
2-6. MAIN BOARD (Page 11)
2-7. FAN, CHASSIS BACK (Page 12)
2-8. MECHANISM BLOCK (M) ASSY (Page 12)
2-9. TRAY (UM) ASSY (Page 13)
2-10. MD ASSY (Page 13)
2-11. SERVO BOARD (Page 14)
2-12. OPTICAL PICK-UP BLOCK (Page 14)

Note : Follow the disassembly procedure in the numerical order given.

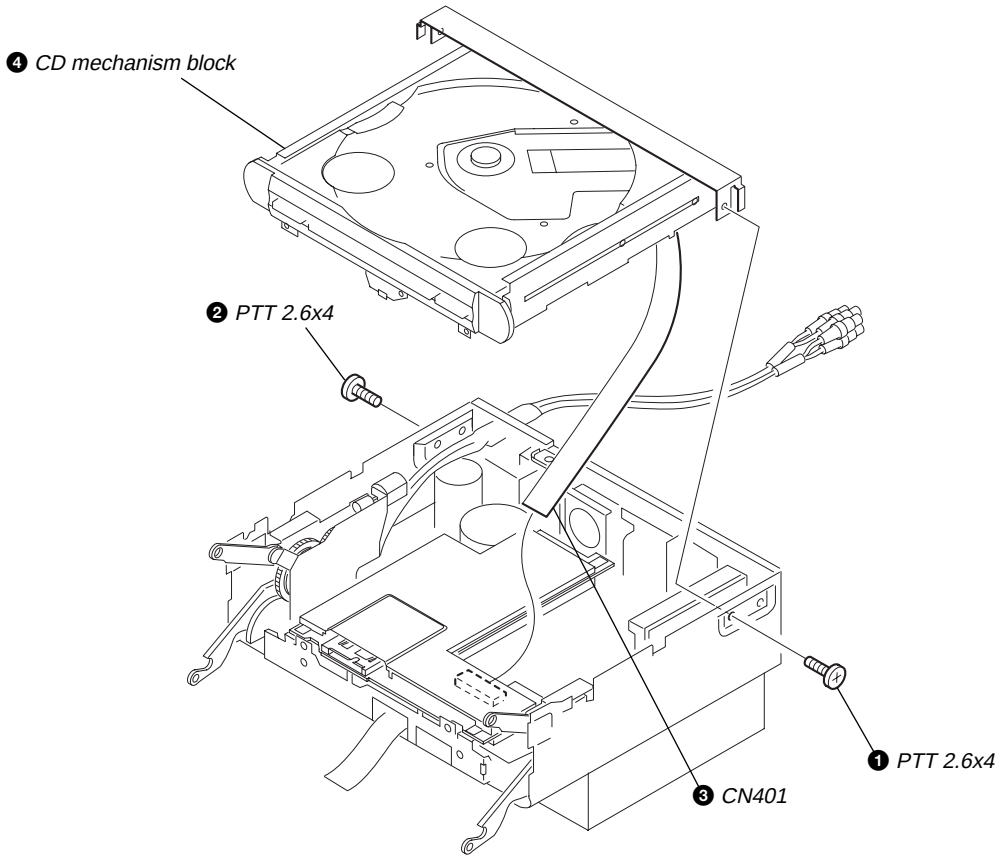
2-1. FRONT PANEL ASSY


❶ screws (thin head M1.4)
❸ cover (FPC)
❷ screws (thin head M1.4)
❹ CN201
(Take care not to pull the
flexible board excessively)
❺ front panel assy

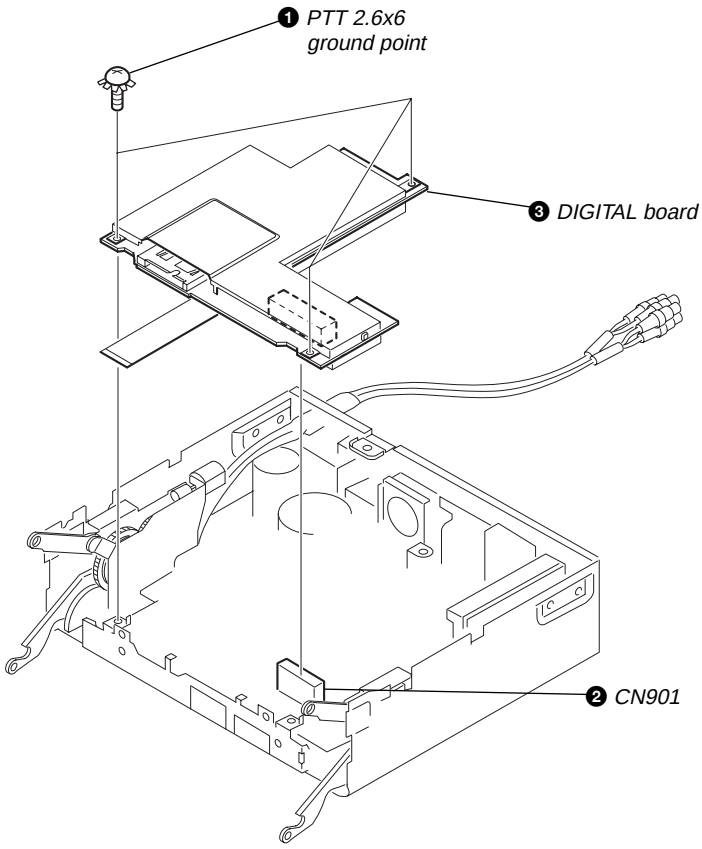
2-2. SUB PANEL (CD) ASSY



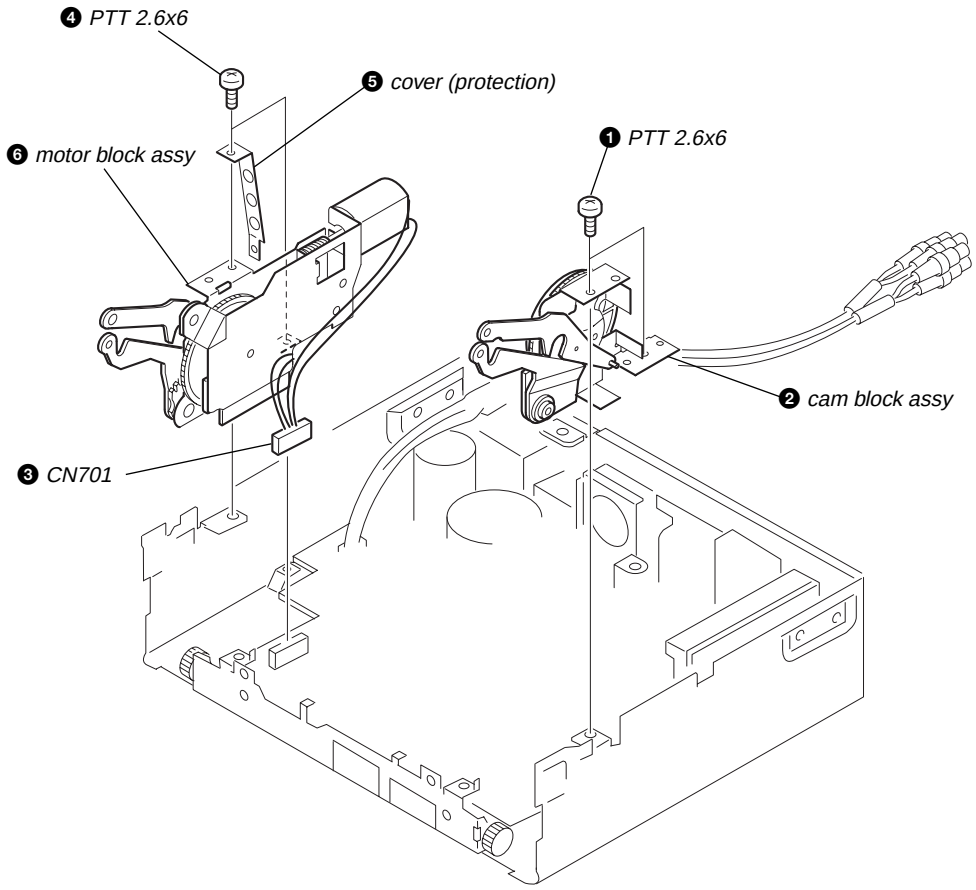
2-3. CD MECHANISM BLOCK



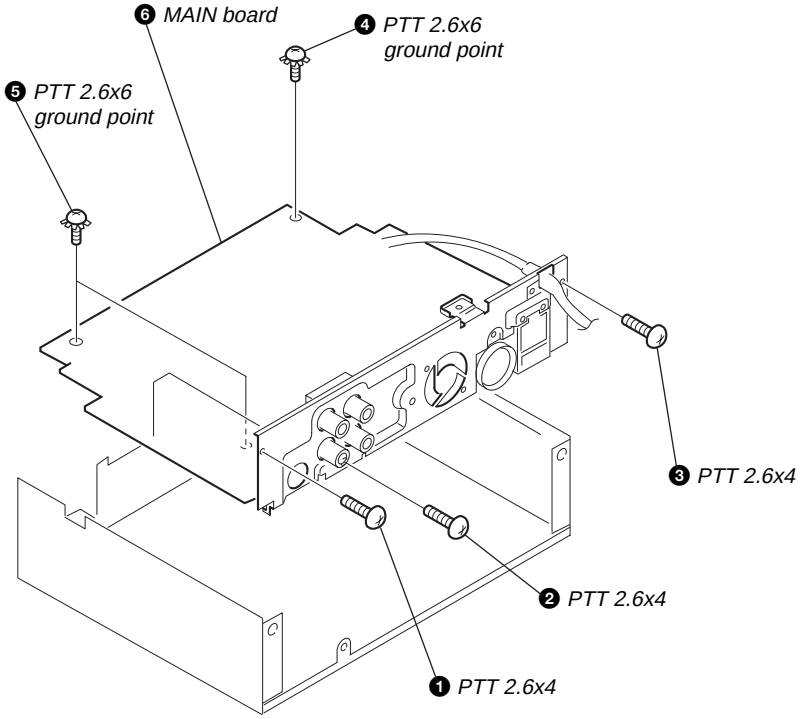
2-4. DIGITAL BOARD



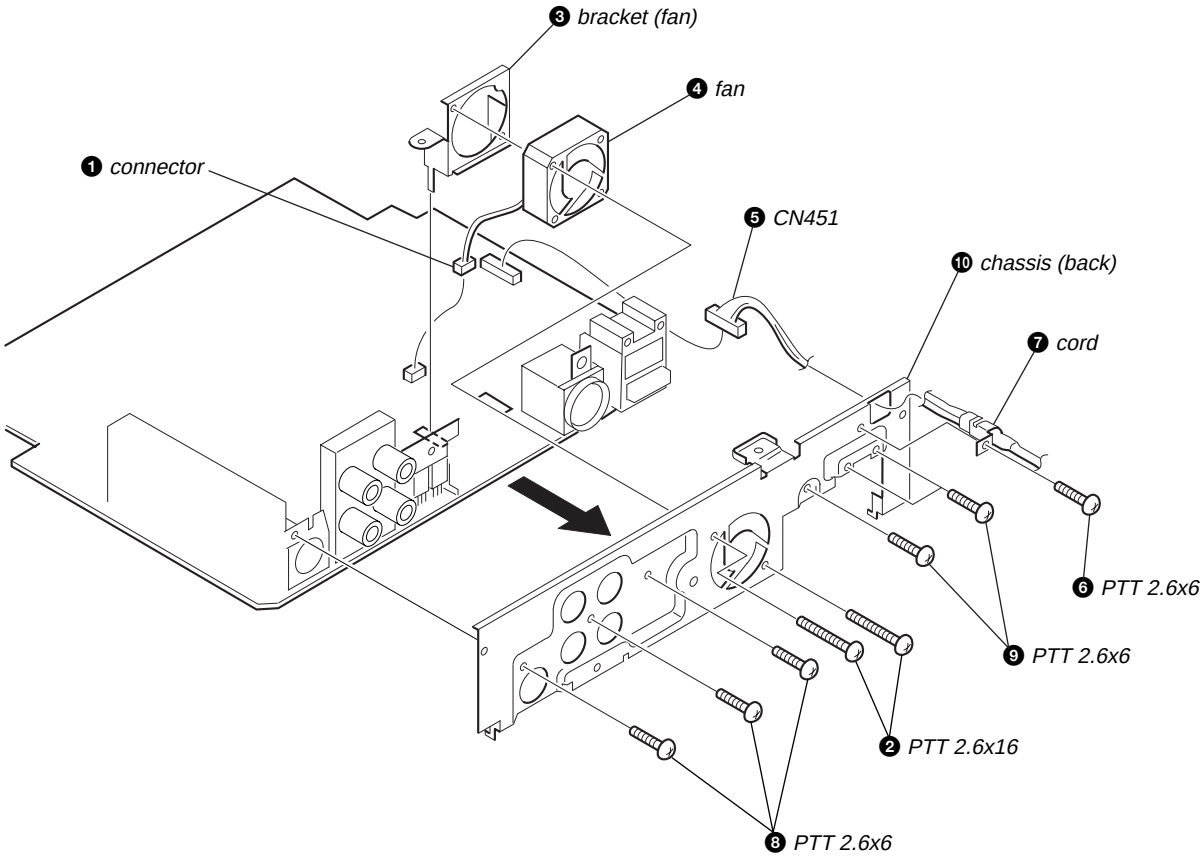
2-5. CAM BLOCK ASSY, MOTOR BLOCK ASSY



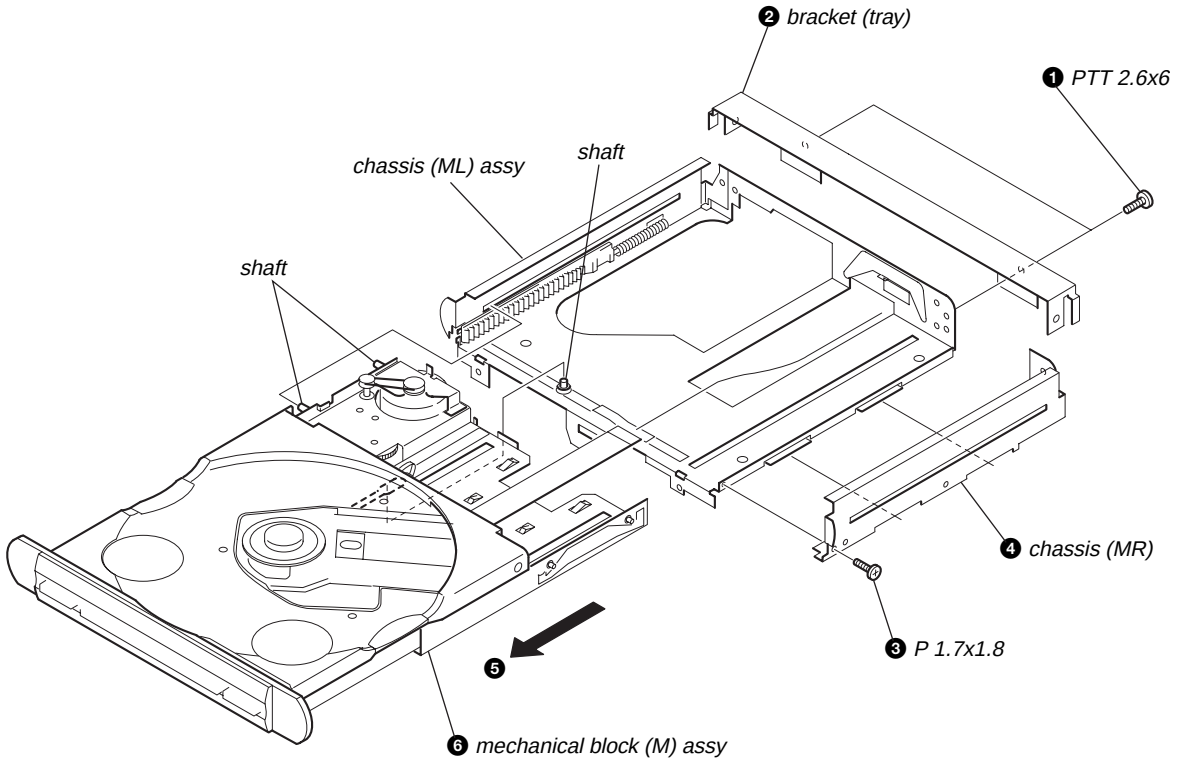
2-6. MAIN BOARD



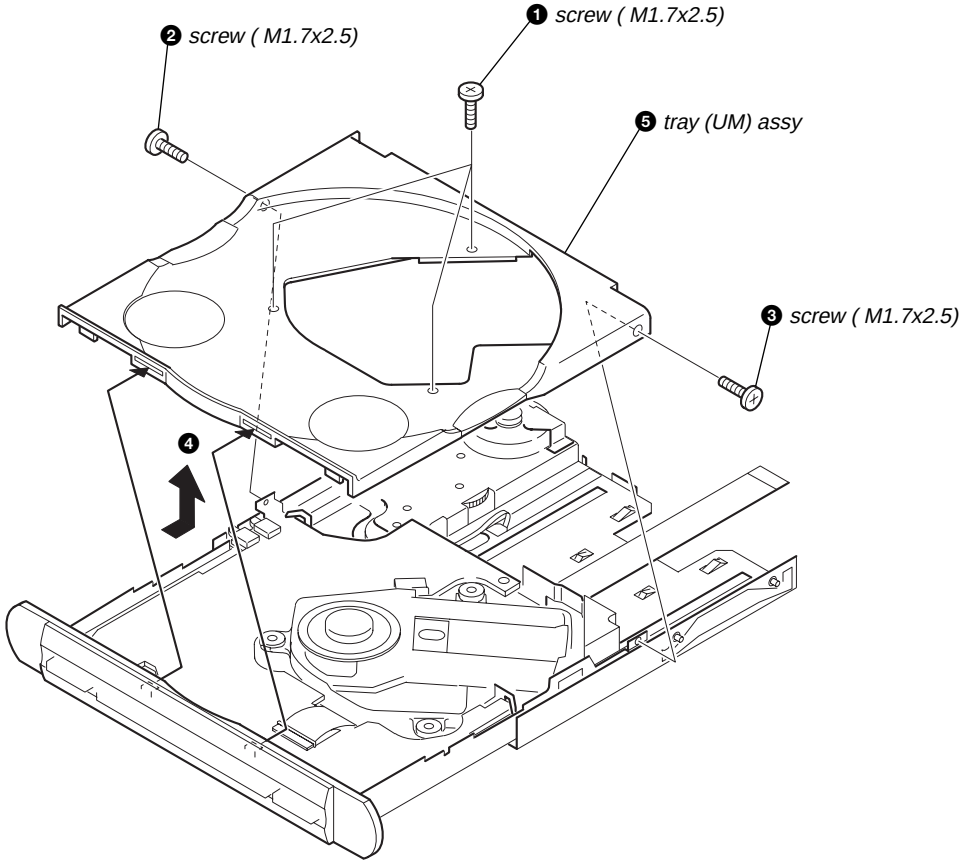
2-7. FAN, CHASSIS BACK



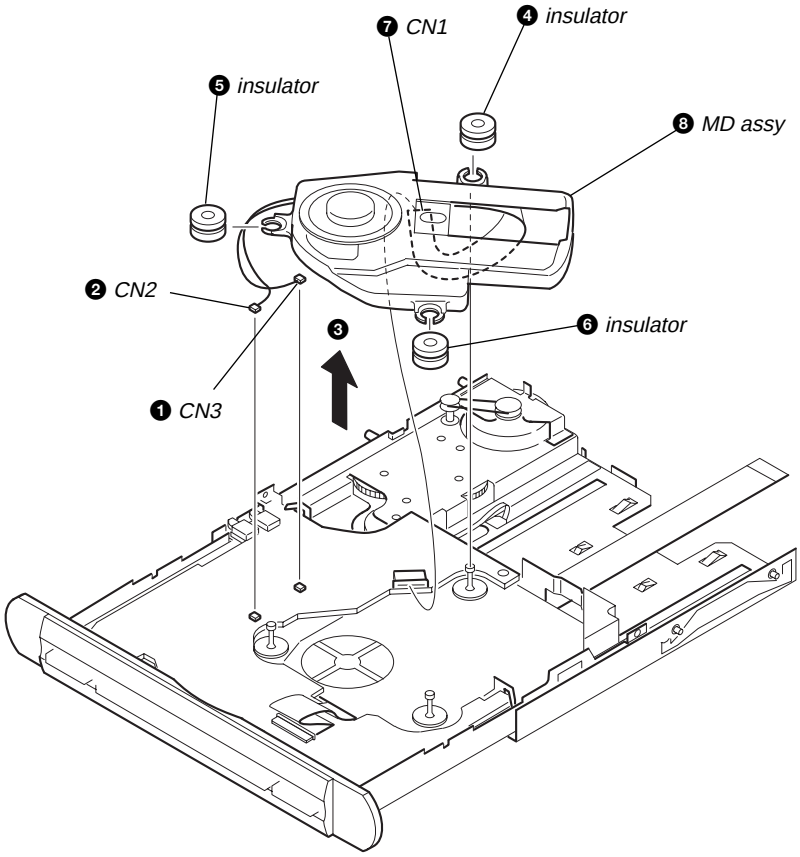
2-8. MECHANISM BLOCK (M) ASSY



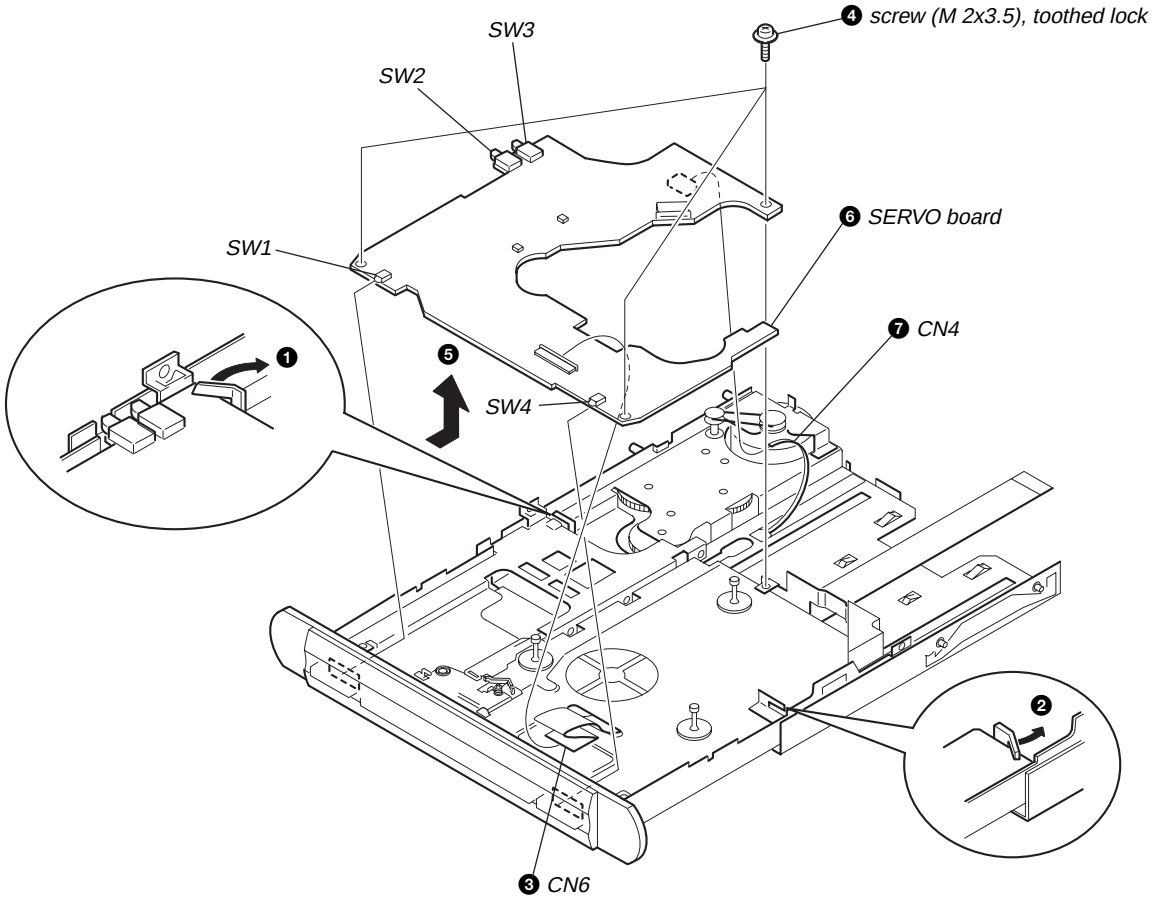
2-9. TRAY (UM) ASSY



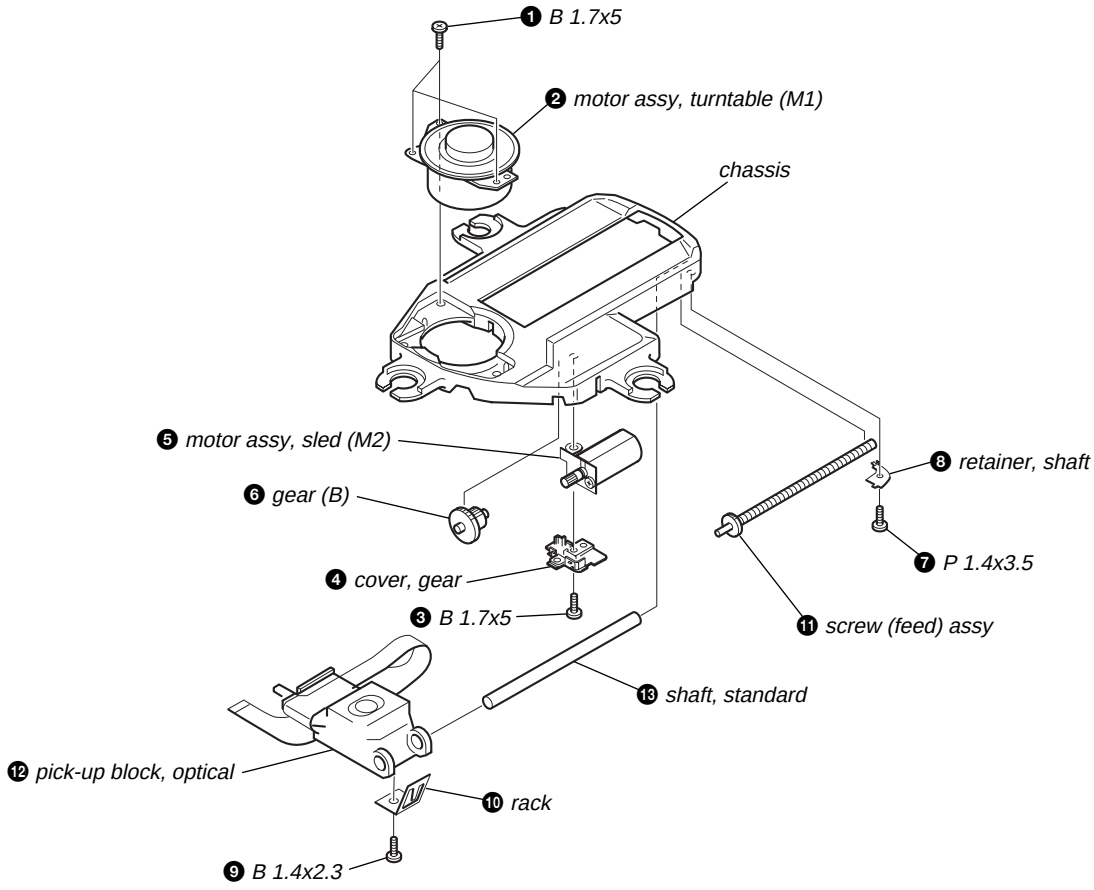
2-10. MD ASSY



2-11. SERVO BOARD



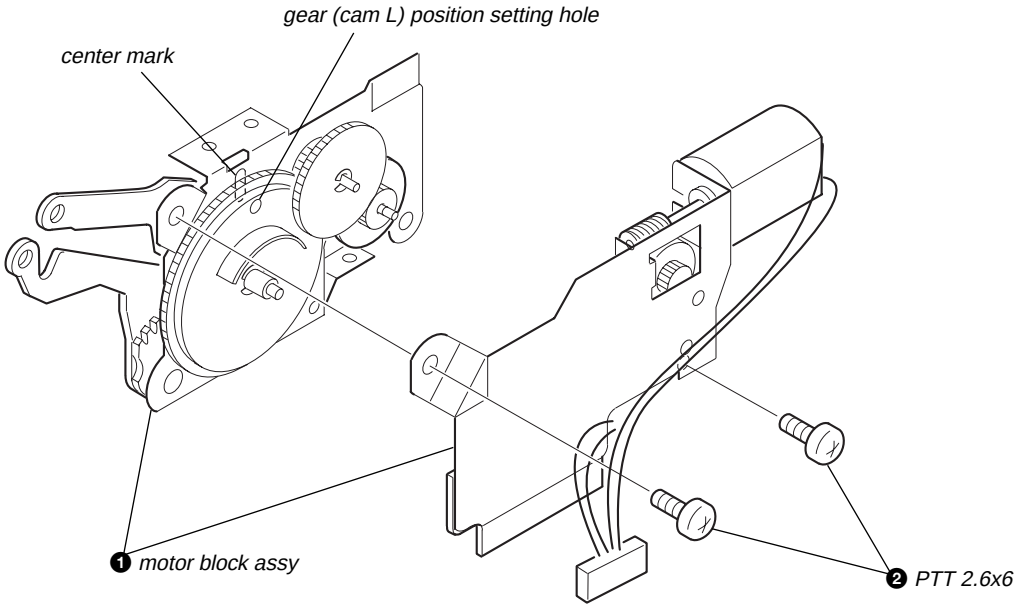
2-12. OPTICAL PICK-UP BLOCK



SECTION 3
PHASE ALIGNMENT

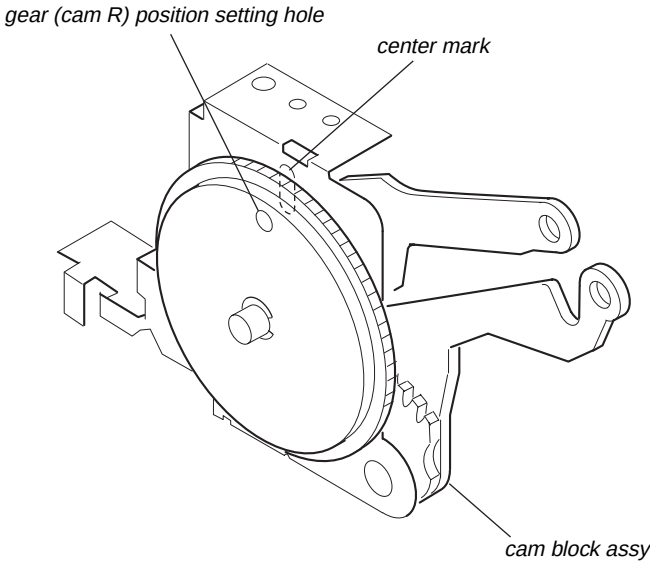
3-1. GEAR (CAM L)

• Align the gear (cam L) position setting hole with the center mark on the bracket before screwing the motor block assy to the mechanism chassis.



3-2. GEAR (CAM R)

① Align the gear (cam R) position setting hole with the center mark on the bracket before screwing the cam block assy to the mechanism chassis.
② Touch the gear (cam R) with fingers in the direction of rotation and make sure that there is no phase difference with the R-side position setting hole.



SECTION 4
DIAGRAMS

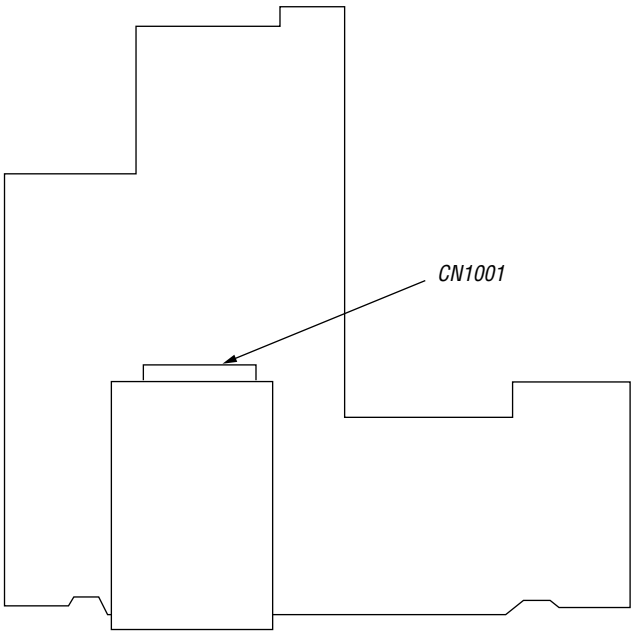
4-1. NOTE FOR REPLACEMENT OF DIGITAL BOARD

Parts in the digital board are not repairable and therefore the board is demounted and replaced.
However, the connectors (CN1001, 1002, 1003 and 1012) are to be repaired. If any of the following symptoms appears, the MS connector (CN1001) should be replaced before the board is demounted and replaced:

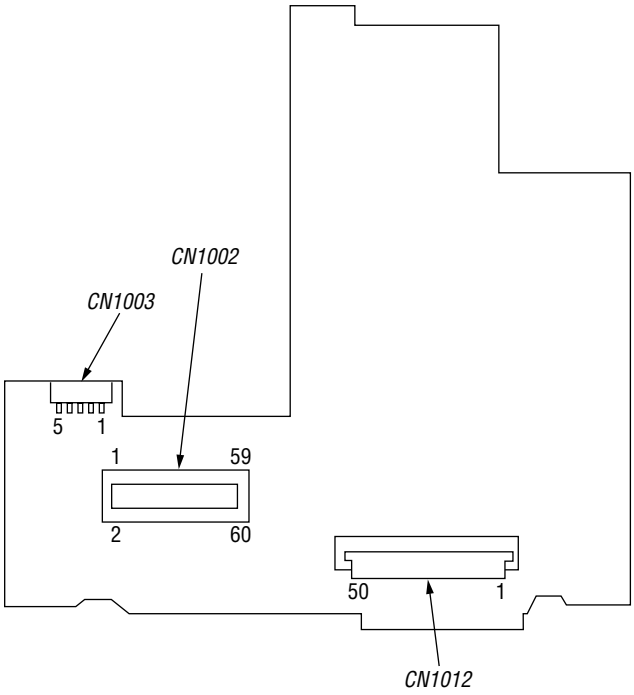
1. Poor operations of MS connector
Memory stick is not locked.
Memory stick is not ejected.

2. Memory stick not recognized
Even though a memory stick having music contents is inserted, no source screen will appear when the SOURCE button is pressed.
Even though a memory stick having image contents is inserted, no image can be captured.

– DIGITAL BOARD (SIDE A) –



– DIGITAL BOARD (SIDE B) –



4-2. IC PIN DESCRIPTIONS

• IC5 CXD9684R-004 (AUDIO INTERFACE) (SERVO BOARD)

Pin No.	Pin Name	I/O	Pin Description
1	RESET	I	Reset signal input
2	MIMD	I	CPU interface mode select signal input Connect to VDD (+3 V) in this set.
3	AD0	I	CPU interface chip select signal input
4	AD1	I	CPU interface latch pulse signal input
5	MIDIO (I2C SDA)	I/O	CPU interface data signal input/output
6	MICK (I2C SCL)	I	CPU interface clock signal input
7	AD2	I	CPU interface acknowledge signal input
8	VDDT (3.3V)	—	Power supply pin (+3.3 V)
9	SDD	O	Data signal output
10	AD3	O	Bit signal output
11	AD4	O	LR clock signal output
12	SDI0	I	Data signal input 0
13	BCKIA	I	Bit clock signal input A
14	LRCKIA	I	LR clock signal input A
15	AD5	I	Data signal input 1
16	CE	I	Bit clock signal input B
17	OE	I	LR clock signal input B
18	VDD (2.5V)	—	Power supply pin (+2.5 V)
19	STANDBY	I	Standby mode control signal input
20	VSS (2.5GND)	—	Ground pin
21	VSSL (2.5GND)	—	Ground pin for DAC Lch
22	VRAL	—	Reference voltage pin for DAC Lch
23	LO	O	DAC Lch signal output
24	VDAL (2.5V)	—	Power supply pin (+2.5 V) for DAC Lch
25	VDAR (2.5V)	—	Power supply pin (+2.5 V) for DAC Rch
26	RO	O	DAC Rch signal output
27	VRAR	—	Reference voltage pin for DAC Rch
28	VSSR (2.5GND)	—	Ground pin for DAC Rch
29	TESTP	I	Test pin
30	CKS	I	VCO select signal input Connect to VDD (+3 V) in this set.
31	AD12	O	Address signal output 0
32	AD11	O	Address signal output 1
33	AD10	O	Address signal output 2
34	AD9	O	Address signal output 3
35	VDDT (3.3V)	—	Power supply pin (+3.3 V)
36	AD8	O	Address signal output 4
37	AD7	O	Address signal output 5
38	AD6	O	Address signal output 6
39	PO7	O	Address signal output 7
40	VSS	—	Ground pin
41	AD13	I	Flag signal input 0
42	AD14	I	Flag signal input 1
43	WR	I	Flag signal input 2
44	AD16	I	Flag signal input 3
45	AD15	I/O	External interrupt signal input/output
46	IO0	I	Data signal input 0
47	IO1	I	Data signal input 1
48	VSS	—	Ground pin
49	IO2	I	Data signal input 2
50	IO3	I	Data signal input 3
51	IO4	I	Data signal input 4

Pin No.	Pin Name	I/O	Pin Description
52	VDD (2.5V)	—	Power supply pin (+2.5 V)
53	IO5	I	Data signal input 5
54	IO6	I	Boot control signal input
55	IO7	I	SPDIF signal input
56	VSSP	—	Ground pin
57	PDO	O	PLL phase detect signal output
58	VCOI	I	VCO control voltage signal input
59	VDDP	—	Power supply pin (+2.5 V) for VCO
60	CKI/ACKO	I/O	External clock signal input/audio clock signal output
61	VDDX (2.5V)	—	Power supply pin (+2.5 V) for crystal oscillator
62	X1	I	Crystal oscillator (16.934 MHz)
63	X0	O	Crystal oscillator (16.934 MHz)
64	VSSX	—	Ground pin

• IC11 HD6432238RWN20TEIV (CD SYSTEM CONTROL) (SERVO BOARD)

Pin No.	Pin Name	I/O	Pin Description
1	TEST	I	Test mode select signal input
2	DEC XRST	O	DEC reset signal output
3	DEC STBY	O	DEC standby mode control signal output
4	XRDE	O	DRAM data read-out enable signal output
5	(NCO)	O	Not used. (Open)
6	XWRE	O	DRAM write-in enable signal output
7	SCLK	O	SENS read-out serial clock signal output
8	SENS	I	SENS signal input
9	CD CLK	O	CD servo serial clock signal output
10	CD DAT	O	CD servo serial data signal output
11	CD LAT	O	CD servo latch signal output
12	CVCC	—	Power supply pin (+3.3 V)
13	DAC MUTE	O	DAC mute control signal output Not used in this set. (Open)
14	VSS	—	Ground pin
15	MUTE	O	Audio mute control signal output
16	XRST	O	CD servo reset signal output
17	XQOK	O	CD servo sub-code Q OK signal output
18	EMPH	O	Emphasis control signal output Not used in this set. (Open)
19	GFS	I	GFS signal input
20	FOK	I	FOK signal input
21	APC2	O	APC control signal output 2
22	APC1	O	APC control signal output 1
23	SPST	O	Spindle kick signal output
24	RW SEL	O	Not used. (Open)
25	RF SW	O	Not used. (Open)
26	SIZE	I	Not used. (Open)
27	D IN	I	Not used. (Open)
28	D OUT	I	Not used. (Open)
29	LIM SW	I	PU inner detect SW signal input
30	PSB	O	Mute signal output
31	PC TX	O	Bus data signal output
32	PC RX	I	Bus data signal input
33	IN SW	I	Not used. (Open)
34	LM LO	O	Not used. (Open)
35	LM EJ	O	Not used. (Open)
36	EJECT OK	I	Front panel open mode signal input Connect to VCC (+3 V) in this set.
37	CLOSE OK	O	Not used. (Open)
38	SCOR	I	Sub-code sync detect signal input
39	TRAY LAMP	O	Not used. (Open)
40	GRSCOR	I	DRAM controller sub-code sync detect signal input
41	HS	O	High speed signal
42	AVSS	—	Ground pin
43	TE BAL ADJ	O	TE balance adjustment signal output
44	DRAM	O	Not used. (Open)
45	D SW	I	Disc chucking detect signal input Connect to ground in this set.
46	TRAY CUR	I	Tray current detect signal input
47	KEY0	I	Test mode key SW signal input
48	KEY1	I	Test mode rotary SW signal input
49	(NCO)	I	Connect to ground in this set.
50	(NCO)	I	Connect to ground in this set.
51	TEMP	I	Tempareture detect signal input Connect to ground in this set.
52	(NCO)	I	Connect to ground in this set.

Pin No.	Pin Name	I/O	Pin Description
53	AVREF	—	Reference voltage pin (+3.3 V) for A/D converter
54	AVCC	—	Power supply pin (+3.3 V) for A/D converter
55	MD0	—	CPU operation mode setting Connect to VCC (+3.3 V) in this set.
56	MD1	—	CPU operation mode setting Connect to VCC (+3.3 V) in this set.
57	OSC2	—	Not used. (Open)
58	OSC1	—	Connect to ground in this set.
59	RSTX	I	CPU reset signal input
60	NMI	O	Connect to VCC (+3.3 V) in this set.
61	STBY	—	Connect to VCC (+3.3 V) in this set.
62	VCC	—	Power supply pin (+3.3 V)
63	XTAL	—	Crystal oscillator (12.288 MHz)
64	VSS	—	Ground pin
65	XTXAL	—	Crystal oscillator (12.288 MHz)
66	F WE	—	Flash write enable
67	MD2	—	CPU operation mode setting
68	FL BOOT	I	Flash write-in mode select signal input
69	FL W	O	Flash write control signal output
70	CD ON	O	CD servo power control signal output
71	CDM ON	O	Not used. (Open)
72	DEC INT	I	DEC interrupt signal input
73	(NCO)	O	Not used. (Open)
74	LINK OFF	O	Link off signal output
75	EJECT KEY	I	Eject key signal input
76	UNI SO	O	SONY bus serial data signal output
77	UNI SI	I	SONY bus serial data signal input
78	UNI CK	I	SONY bus clock signal input
79	(NCO)	O	Not used. (Open)
80	SDA	I/O	I2C interface data signal input/output
81	SCL	O	I2C interface clock signal output
82, 83	(NCO)	O	Not used. (Open)
84	SQSO	I	Sub-code Q data signal input
85	SQCK	O	Sub-code Q read-out clock signal output
86	LED DAT	O	LED data signal output
87	LED CLK	O	LED clock signal output
88	LED LAT	O	LED latch signal output
89, 90	(NCO)	O	Not used. (Open)
91	BUS ON	I	Bus ON signal input
92	BU CHK	I	Back up voltage detect signal input
93	(NCO)	O	Not used. (Open)
94	(NCO)	I	Open/close end signal input
95, 96	(NCO)	O	Not used. (Open)
97	TEXT SEL	I	CD text function select signal input
98	ESP SEL	I	ESP function select signal input
99	CF SEL	I	Custom file function select signal input
100	DOUT SEL	I	Digital-out select signal input

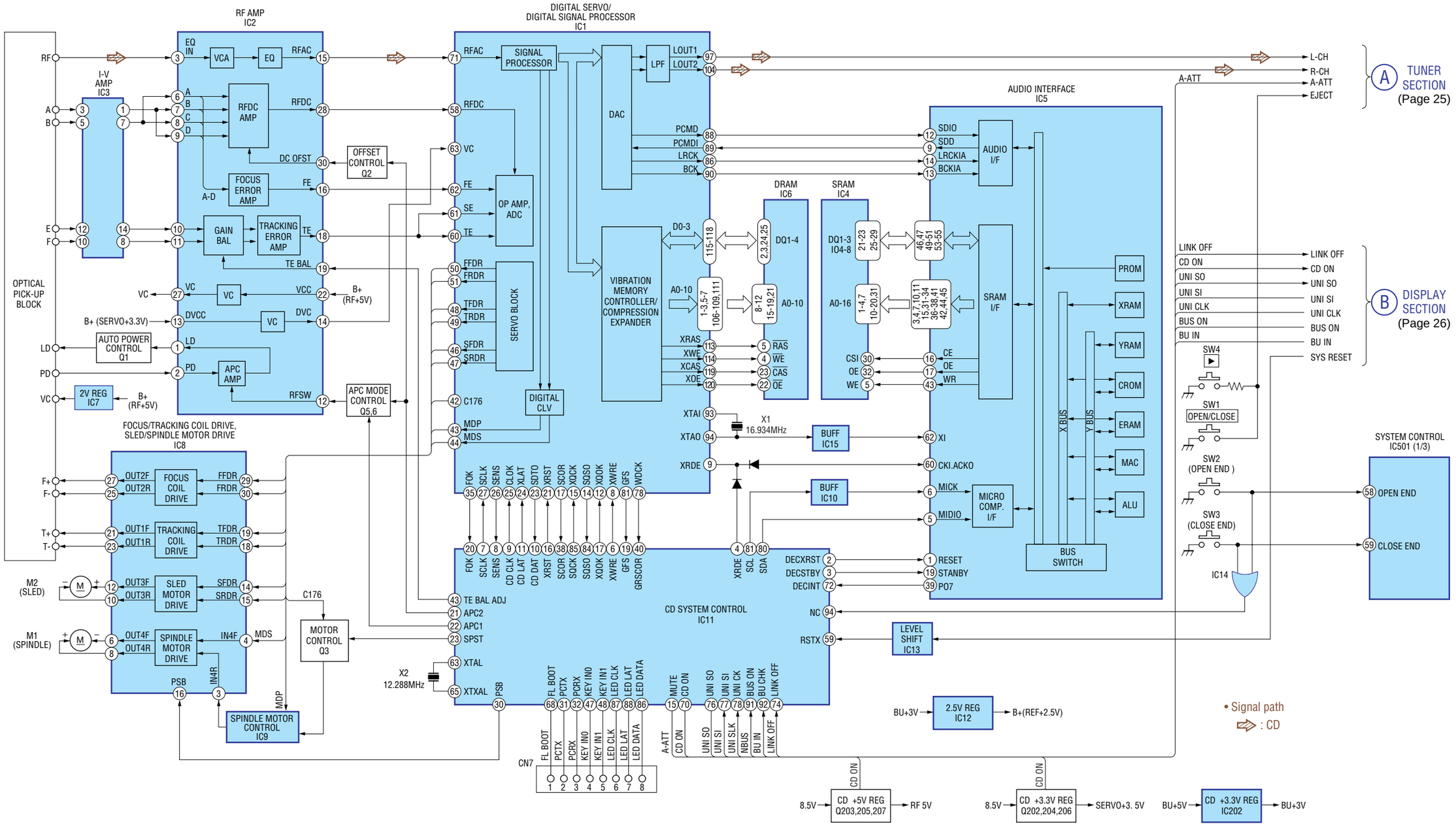
• IC501 MB90F574PMT-G-MS100 (SYSTEM CONTROL) (MAIN BOARD) (US, Canadian MODEL)
• IC501 MB90F574PMT-G-MS101 (SYSTEM CONTROL) (MAIN BOARD) (AEP, UK, E MODEL)

Pin No.	Pin Name	I/O	Pin Description
1	AB CLS	O	Digital AMP D/AB class select signal output
2	$\overline{\text{MS CHK}}$	I	MS check signal input
3	$\overline{\text{MS SET}}$	I	MS insert signal input
4	ADS01	O	A-DSO effect select signal output
5	ADS02	O	A-DSO effect select signal output
6	ATT	O	System mute control signal output
7	$\overline{\text{SYS RST}}$	O	System reset signal output
8	VCC	—	Power supply pin (+5 V)
9	(NCO)	O	Not used. (Open)
10	T.ROM SDA	I/O	Tuner unit EEPROM data signal input/output
11	T.ROM SCK	O	Tuner unit EEPROM clock signal output
12	SH3SI/FLSSI	I	SH3 RXD/Flash write-in data signal input
13	SH3SO/FLSSO	O	SH3 TXD/Flash write-in data signal output
14	$\overline{\text{BUS ON}}$	O	Bus ON control signal output
15	BEEP	O	Beep signal output
16	TEL ATT	I	Telephone attenuate detect signal input
17	UNI SI	I	SONY bus serial data signal input
18	UNI SO	O	SONY bus serial data signal outpit
19	UNI CKO	O	SONY BUS serial clock signal output
20 to 23	(NCO)	O	Not used. (Open)
24	SIRCS	I	Wireless remote control data signal input
25	$\overline{\text{DP 19VI}}$	I	DP1.9 V power voltage check signal input
26	$\overline{\text{DP 33VI}}$	I	DP3.3 V power voltage check signal input
27	$\overline{\text{DP 25VI}}$	I	DP2.5 V power voltage check signal input
28	DP 18VI	I	DP1.8 V power voltage check signal input
29, 30	(NCO)	O	Not used. (Open)
31	$\overline{\text{VOL ATT}}$	O	Electronic volume attenuate control signal output
32	UNI AU	O	Bus audio-in/AUX audio-in select control signal output
33	VSS	—	Ground pin
34	C	—	Not used. (Open)
35	CDON IN	I	CD ON signal input
36	MS LED	O	CD window illumination control signal output
37	FSW SFT	O	OSC frequency shift signal output for DC-DC converter
38	DVCC	—	Power supply pin (+5 V)
39	DVSS	—	Ground pin
40	FAN	O	Fan control signal output
41	(NCO)	O	Not used. (Open)
42	AVCC	—	Power supply pin (+5 V)
43	AVRH	—	Power supply pin (+5 V)
44	AVRL	—	Ground pin
45	AVSS	—	Ground pin
46	KEY IN0	I	Key input 0
47	TEMP (MECHA)	I	Tempareture detect signal input for front panel motor
48	TEMP (FAN)	I	Tempareture detect signal input for fan motor
49	FP IDET	I	Front panel motor current detect signal input
50	QUALITY (RDS)	I	Tuner noise detect signal input
51	TR IDET	I	Tray motor current detect signal input
52	(NCO)	O	Not used.(Open)
53	VSM	I	S-meter voltage detect signal input
54	VCC	—	Power supply pin (+5 V)
55	AMP ON	O	AMP ON control signal output

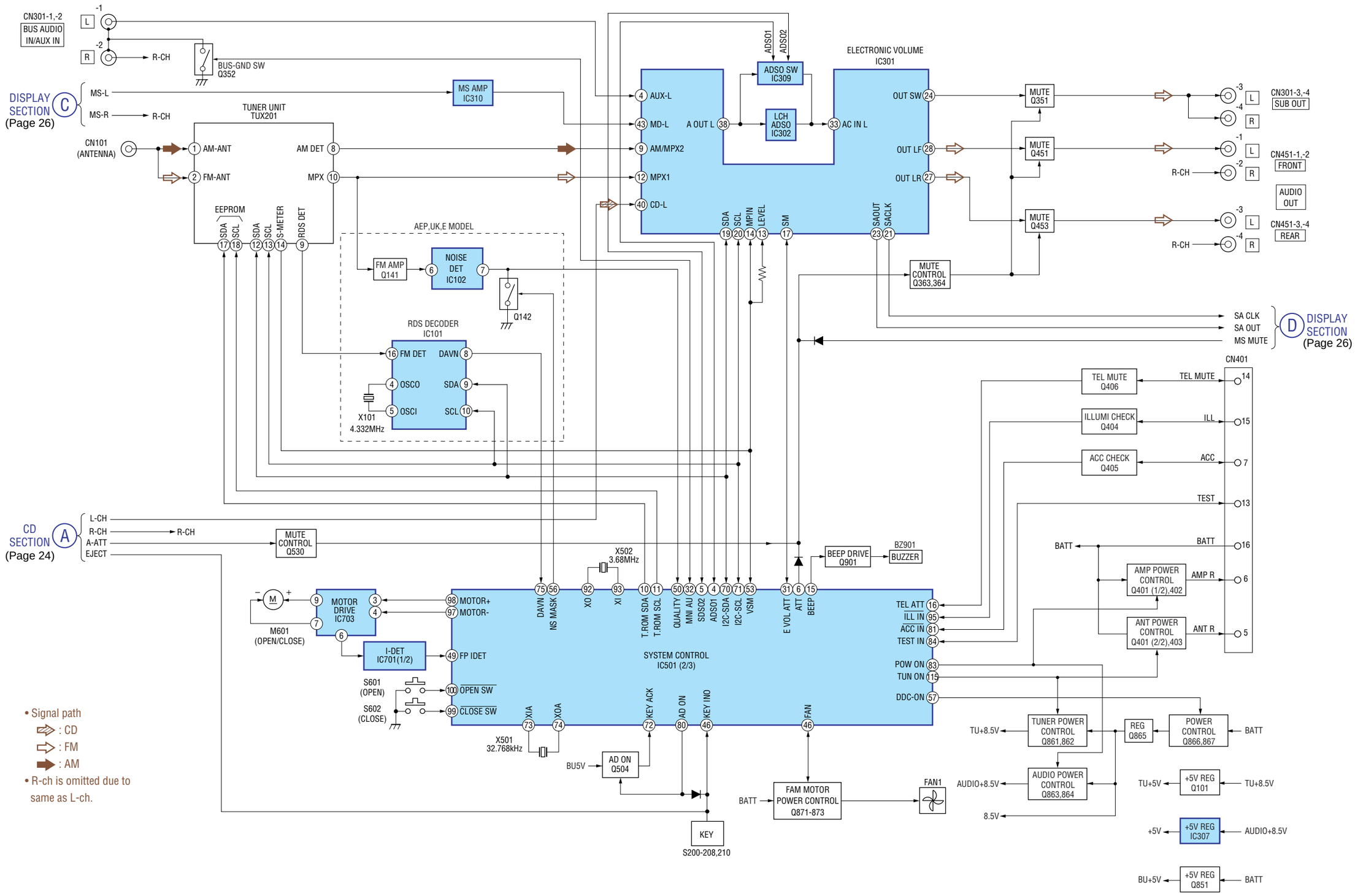
Pin No.	Pin Name	I/O	Pin Description
56	NS MASK	O	Tuner noise masking control signal output
57	DDC ON	O	DC-DC converter power control signal output
58	$\overline{\text{OPEN SENS}}$	I	Tray open detect signal input
59	$\overline{\text{CLOSE SENS}}$	I	Tray close detect signal input
60	LED ON	O	Tray-open illumination ON signal output
61	LOAD+	O	Tray loading motor signal output
62	LOAD–	O	Tray loading motor signal output
63	VSS	—	Ground pin
64	(NCO)	O	Not used. (Open)
65	FSW IN	I	OSC frequency count signal input
66 to 68	(NCO)	O	Not used. (Open)
69	$\overline{\text{FLASH W}}$	I	Flash write-in mode detect signal input
70	I2C SIO	O	I2C serial data signal output
71	I2C CKO	O	I2C serial clock signal output
72	KEY ACK	I	Key acknowledge signal input
73	X1A	—	Crystal oscillator (32.768 kHz)
74	X0A	—	Crystal oscillator (32.768 kHz)
75	$\overline{\text{DAVN (RDS)}}$	I	RDS data acquisition detect signal input (AEP, UK, E model)
76	$\overline{\text{MS INT}}$	I	MS insertion detect signal input (Front panel open/close)
77	BU IN	I	Back-up power detect signal input
78	$\overline{\text{DP PWINT}}$	I	Display power down detect signal input
79	(NCO)	O	Not used. (Open)
80	$\overline{\text{AD ON}}$	O	A/D coverter power control signal output
81	$\overline{\text{ACC IN}}$	I	Accessory power supply detect signal input
82	FLASH PON	O	Flash power ON control signal output
83	POW ON	O	Audio circuit power ON control signal output
84	$\overline{\text{TEST IN}}$	I	Test mode setting detect signal input
85	RAM BU	I	RAM reset detect signal input
86	HSTX	—	Hardware standby signal input
87	MD2	—	Operation mode signal input
88	MD1	—	Operation mode signal input
89	MD0	—	Operation mode signal input
90	RSTX	—	Reset signal input
91	VSS	—	Ground pin
92	X0	—	Crystal oscillator (3.68 MHz)
93	X1	—	Crystal oscillator (3.68 MHz)
94	VCC	—	Power supply pin (+5 V)
95	$\overline{\text{ILL IN}}$	I	Illumination dimmer control signal input
96	(NCO)	O	Not used. (Open)
97	MOT–	O	OPEN/CLOSE motor control signal output
98	MOT+	O	OPEN/CLOSE motor control signal output
99	$\overline{\text{CLOSE SW}}$	I	Close SW detect signal input
100	$\overline{\text{OPEN SW}}$	I	Open SW detect signal input
101	MOTOR ON	O	Motor power supply ON signal output
102	(NCO)	O	Not used. (Open)
103	(NCO)	O	Not used. (Open)
104	DSTSEL1	I	Destination select signal input 1
105	DSTSEL2	I	Destination select signal input 2
106	DEBUG	I	SH3 debug control signal input
107	AMSLED	O	Not used. (Open)
108, 109	(NCO)	O	Not used. (Open)
110	BOOST	O	TFT back light boost control signal output
111	DP 19VO	O	DP1.9 V power control signal output

Pin No.	Pin Name	I/O	Pin Description
112	DP 33VO	O	DP3.3 V power control signal output
113	DP 25VO	O	DP2.5 V power control check signal output
114	DP 18VO	O	DP1.8 V power control check signal output
115	TUN ON	O	Tuner ON signal output
116	MST PW	O	Master power ON status acknowledgment signal output
117	$\overline{\text{DP PW}}$	I	DP bus ON status acknowledgment signal input
118	DP RST	O	DP reset signal output
119	VSS	—	Ground pin
120	DP RSVE	O	DP ATT ON status acknowledgment signal output

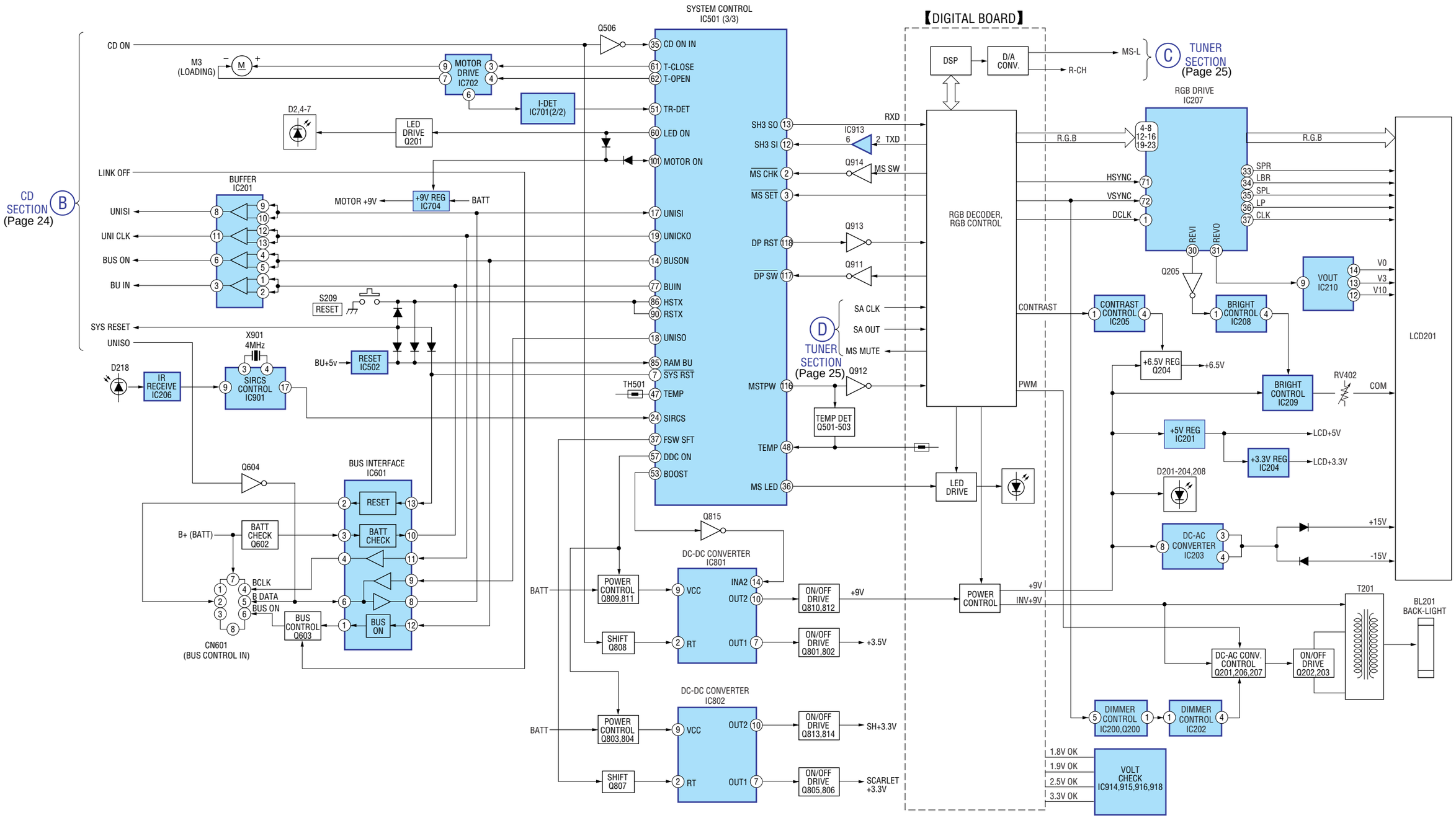
4-3. BLOCK DIAGRAM — CD SECTION —



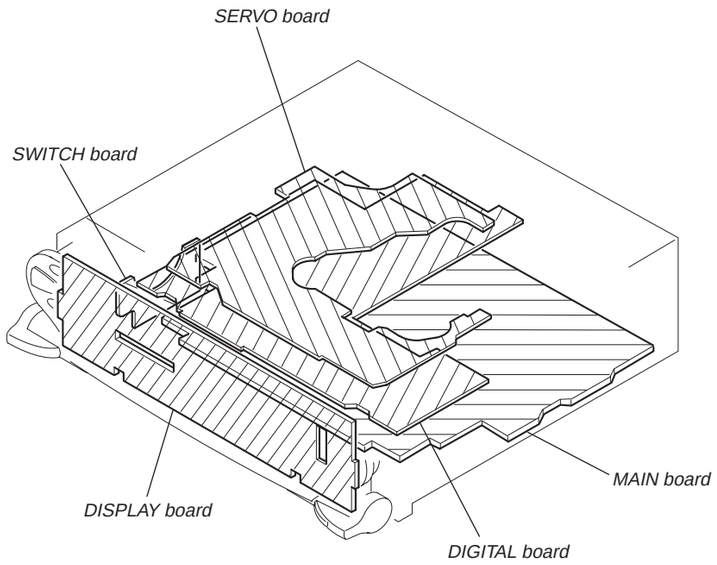
4-4. BLOCK DIAGRAM — TUNER SECTION —



4-5. BLOCK DIAGRAM — DISPLAY SECTION —



4-6. CIRCUIT BOARDS LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

for schematic diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

- ▬ : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : FM
  - ➡ : AM/MW/LW
  - ⇨ : CD

for printed wiring boards:

- ○——: parts extracted from the component side.
- ——: parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ○ : Through hole.
- ▬ : Pattern from the side which enables seeing. (The other layer's patterns are not indicated.)

Caution:
Pattern face side: (Side B) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A) Parts on the parts face side seen from the parts face are indicated.

• Waveforms

— Servo Board —

(MODE: CD PLAY)

① 0.7Vp-p
IC2 (15) (RFAC)

② 0V, Approx. 200mVp-p
IC2 (16) (FE)

③ 0V, Approx. 600mVp-p
IC2 (18) (TE)

④ 3.3Vp-p, 7.6µsec
IC1 (43) (MDP)

⑤ 3.5Vp-p, 22.7µsec
IC1 (86) (LRCK)

⑥ 3.8Vp-p, 474msec
IC1 (90) (BCK)

⑦ 3Vp-p, 16.9344MHz
IC1 (94) (XTAO)

⑧ 2.2Vp-p, 12.288MHz
IC11 (65) (XTXAL)

— Main Board —

① 2.8Vp-p, 4.332MHz
IC101 (4) (OSCO)

② 2.2Vp-p, 32.768kHz
IC501 (74) (X0A)

③ 2.8Vp-p, 3.68MHz
IC501 (92) (X0)

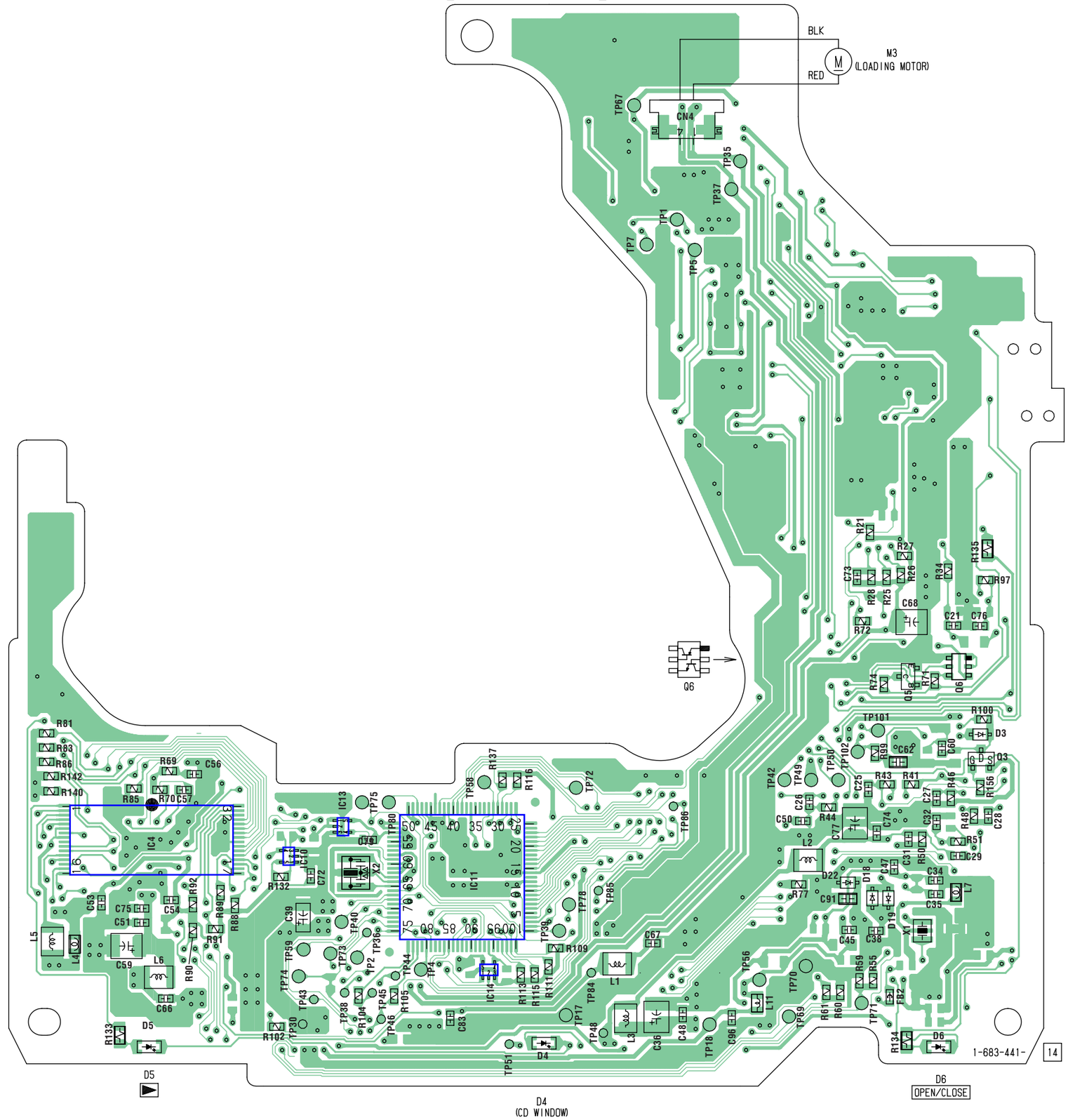
④ 3.5Vp-p, 4MHz
IC901 (4) (XOUT)

4-7. PRINTED WIRING BOARDS — CD MECHANISM SECTION — • Refer to page 27 for Circuit Boards Location.

14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J

【SERVO BOARD】(SIDE A)

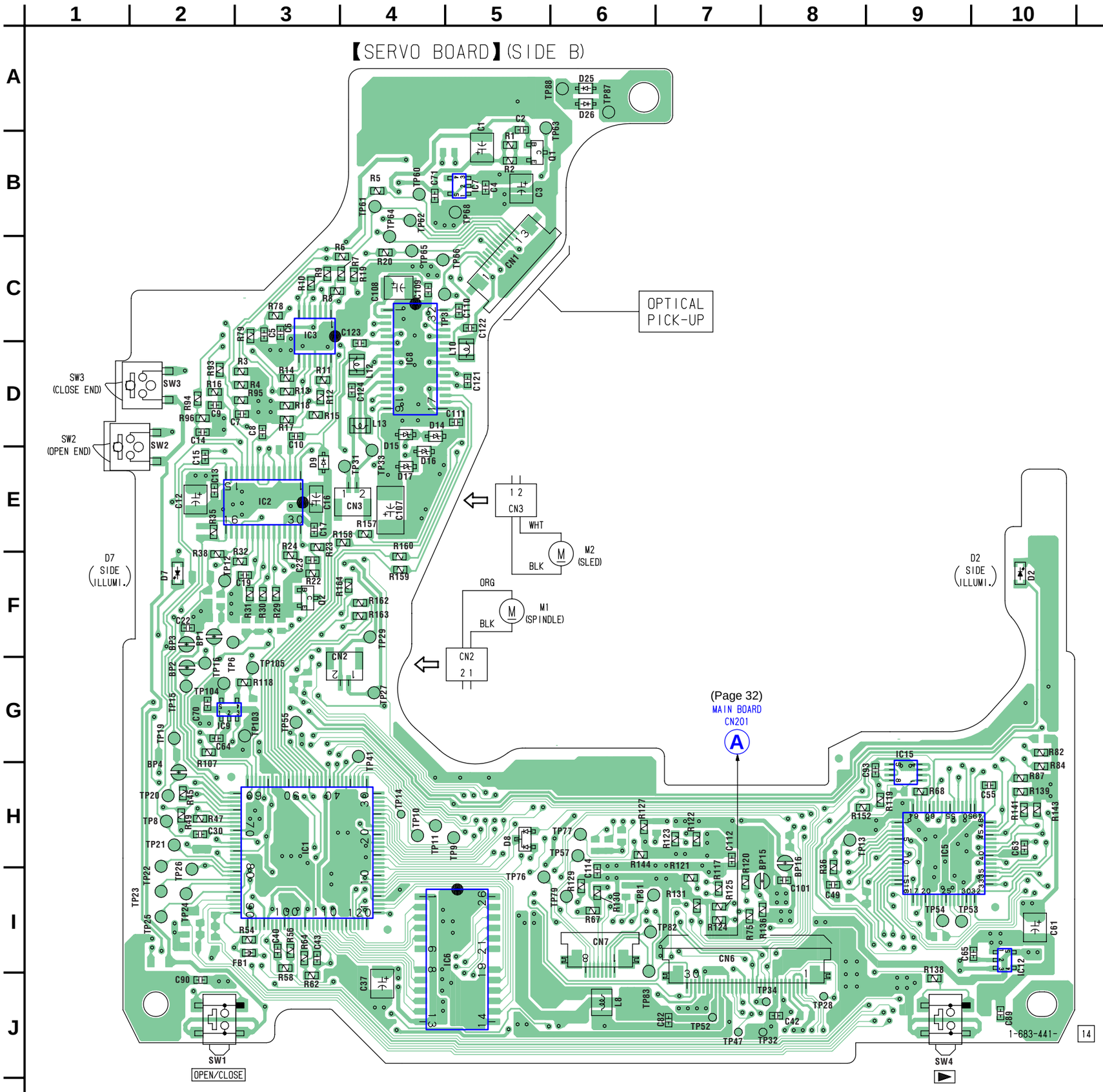


• **Semiconductor Location**

Ref. No.	Location
(D2)	F-10
D3	G-2
D4	J-6
D5	J-9
D6	J-2
(D7)	F-2
(D8)	H-5
(D9)	E-3
(D14)	D-4
(D15)	D-4
(D16)	E-4
(D17)	E-4
D18	I-3
D19	I-3
D22	I-3
(D25)	A-6
(D26)	A-6
(IC1)	H-3
(IC2)	E-3
(IC3)	C-3
IC4	H-9
(IC5)	H-9
(IC6)	I-5
(IC7)	B-5
(IC8)	D-4
(IC9)	G-2
IC10	H-8
IC11	I-6
(IC12)	I-10
IC13	H-8
IC14	I-6
(IC15)	H-9
(Q1)	B-5
(Q2)	F-3
Q3	G-2
Q5	G-3
Q6	G-2

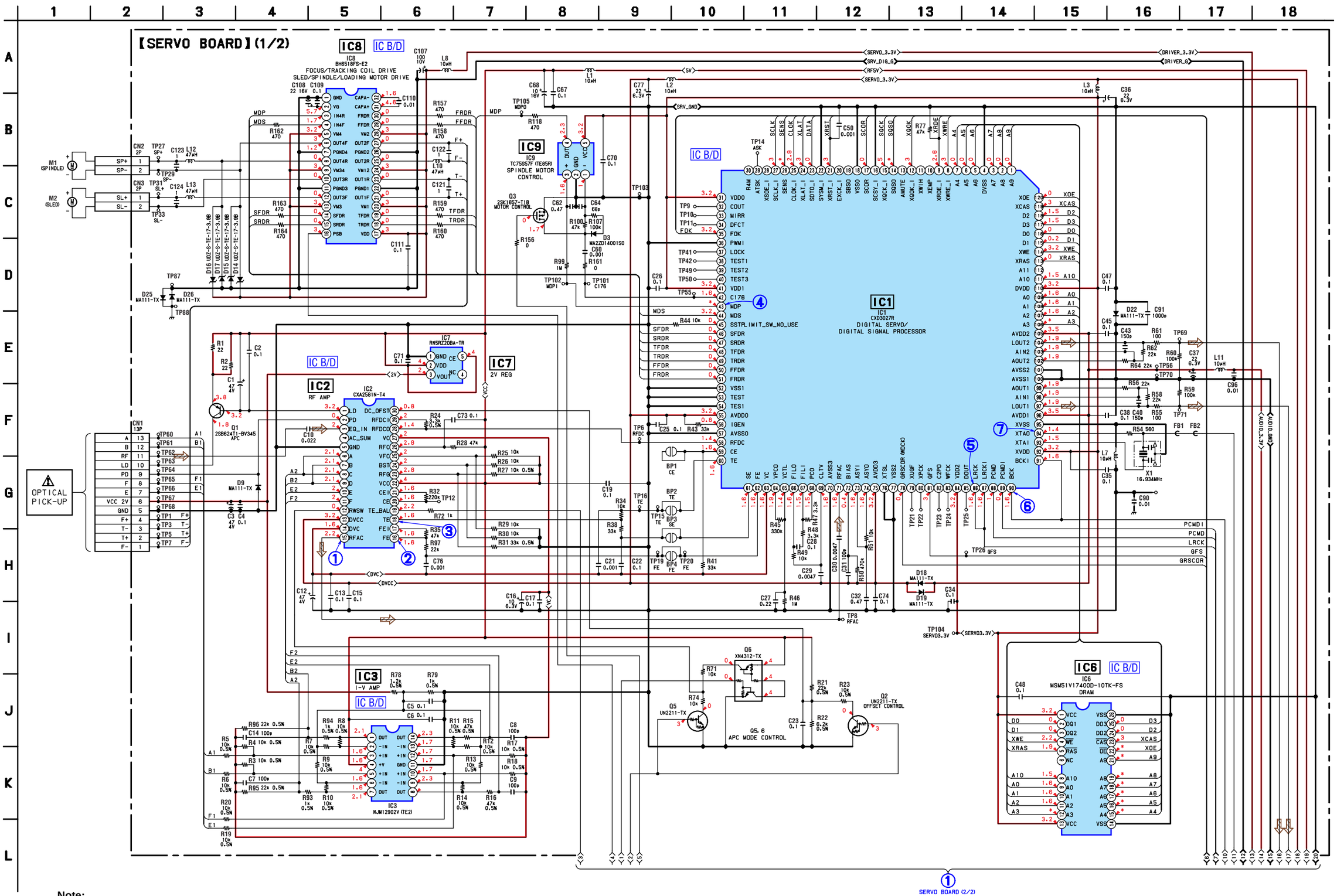
( ): SIDE B

【SERVO BOARD】(SIDE B)



4-8. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (1/2) —

• Refer to page 27 for Waveforms.
• Refer to page 40 for IC Block Diagrams.



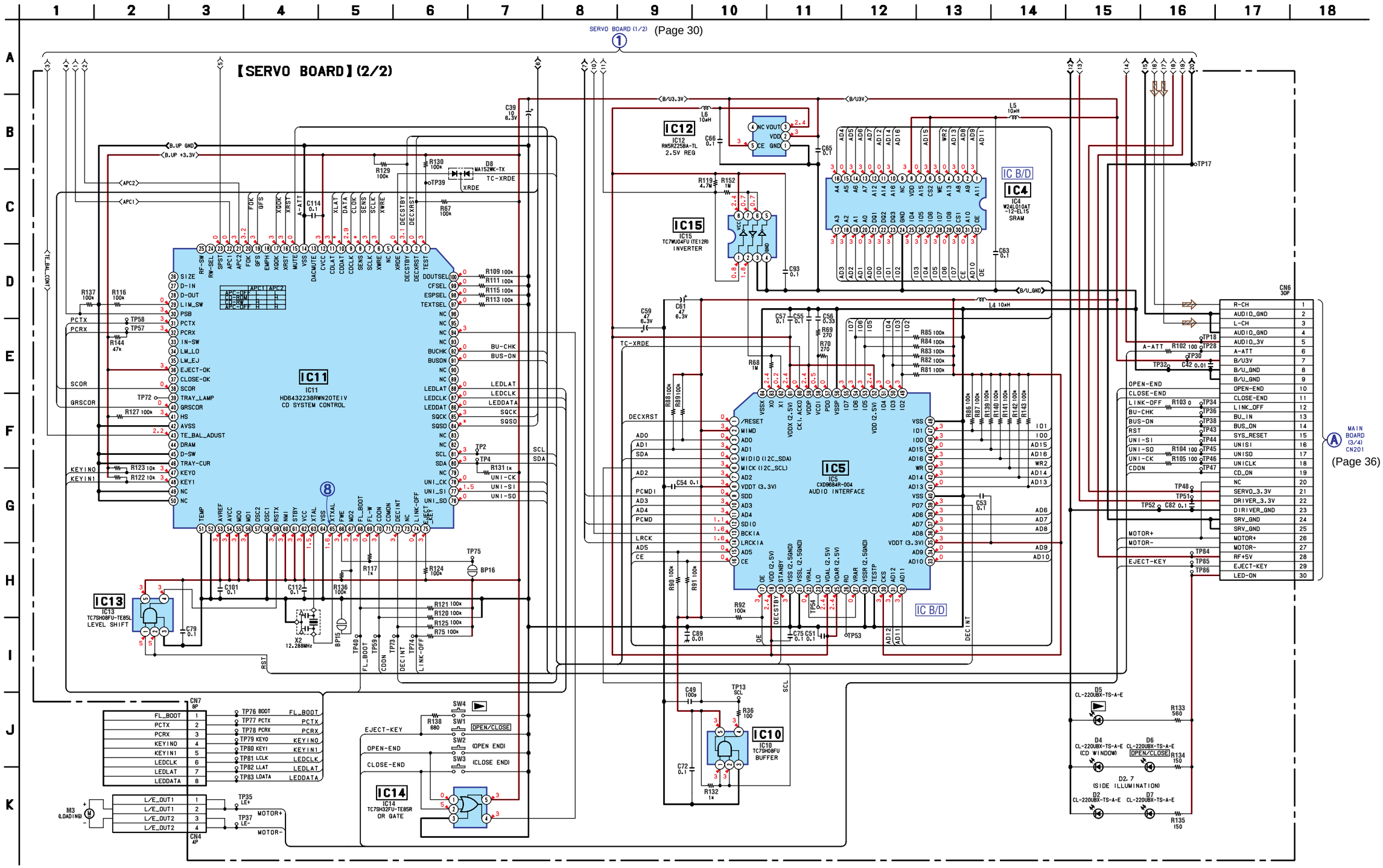
Note:

- Voltage is dc with respect to ground under no-signal conditions.
  no mark : CD PLAY
  * : Impossible to measure

• Refer to page 27 for Waveform.

4-9. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (2/2) —

• Refer to page 42 for IC Block Diagrams.



Note:

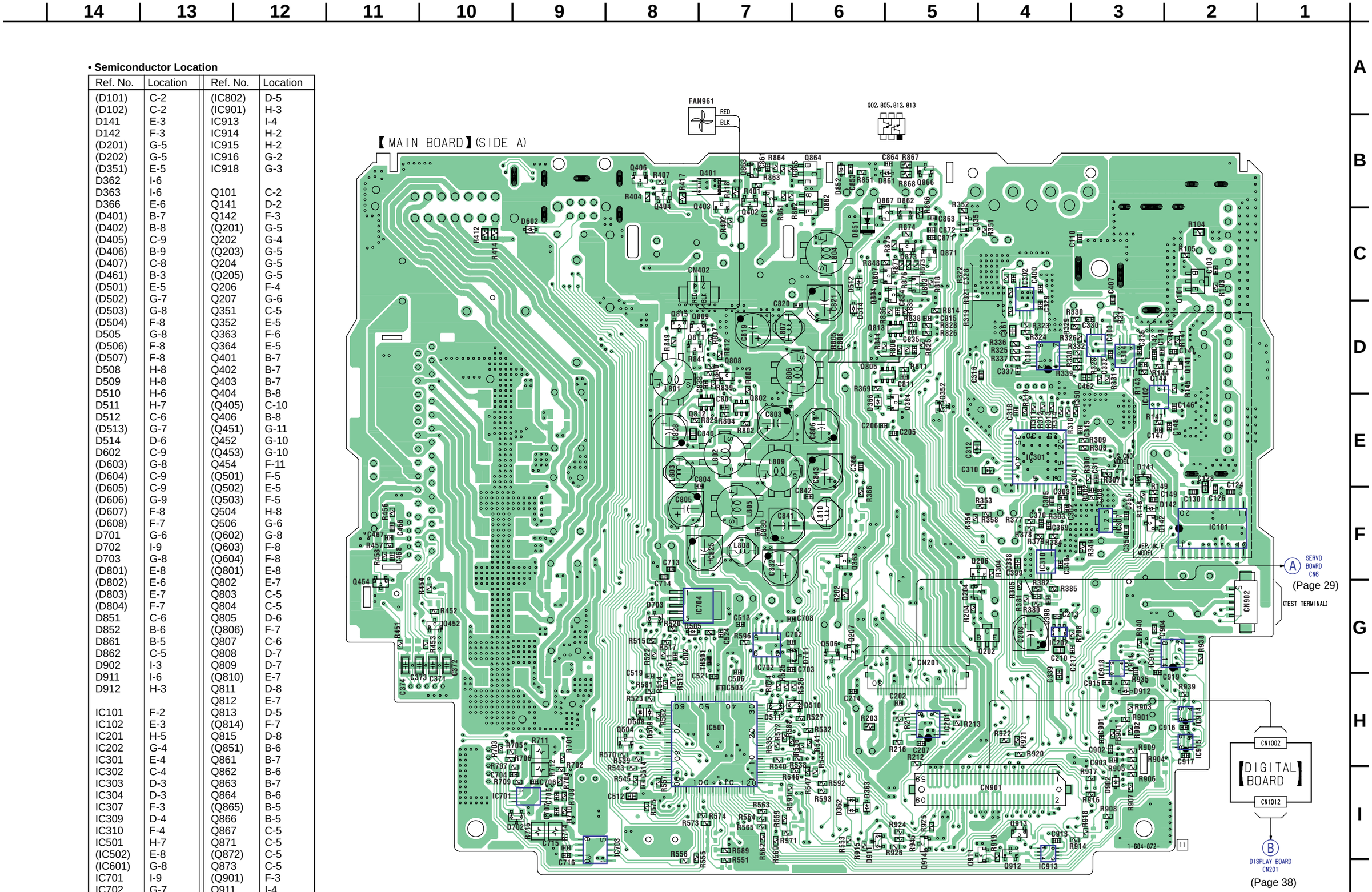
- Voltage is dc with respect to ground under no-signal conditions.
  no mark : CD PLAY
  ∗ : Impossible to measure

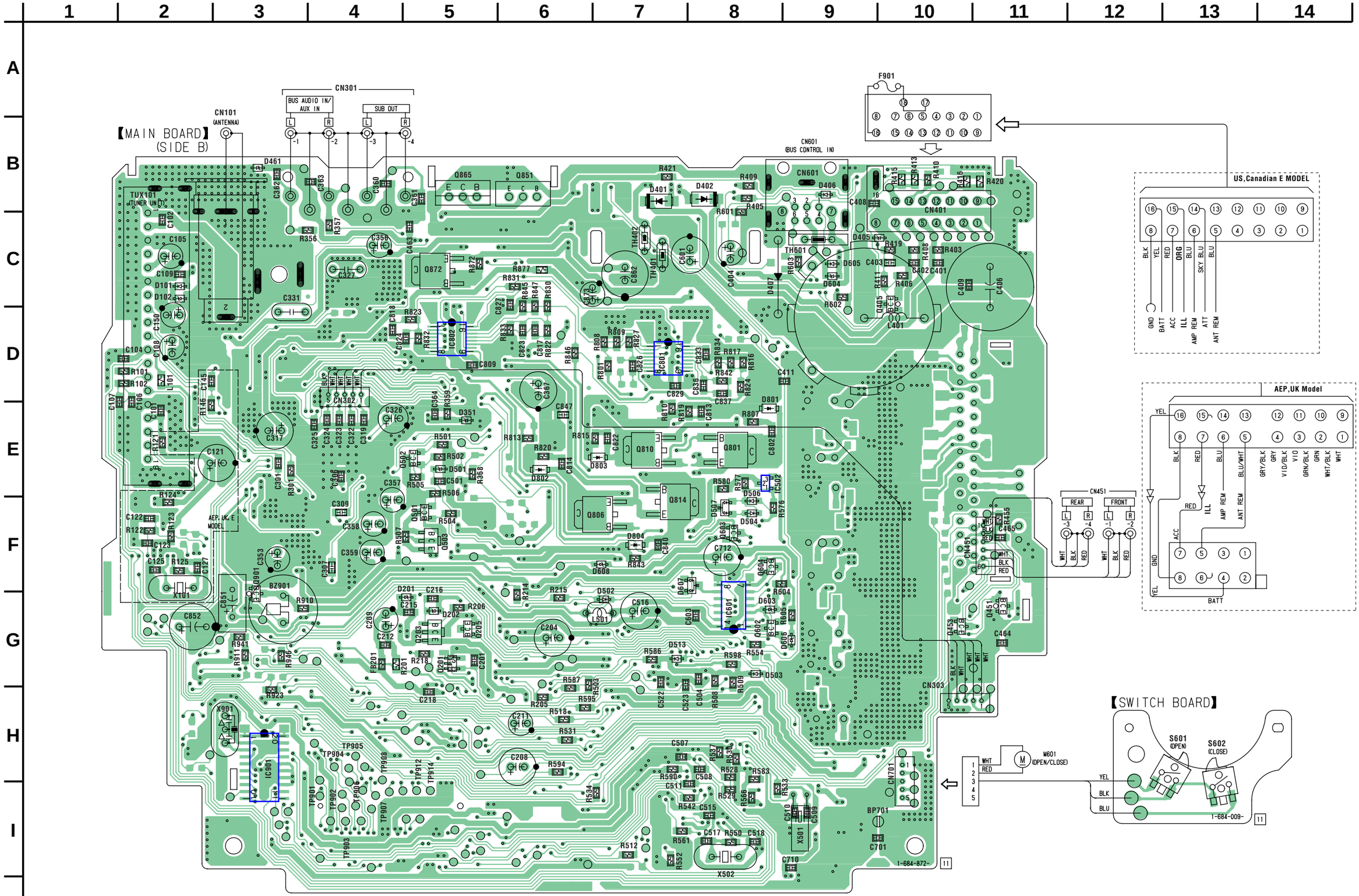
4-10. PRINTED WIRING BOARDS — MAIN SECTION — • Refer to page 27 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
(D101)	C-2	(IC802)	D-5
(D102)	C-2	(IC901)	H-3
D141	E-3	IC913	I-4
D142	F-3	IC914	H-2
(D201)	G-5	IC915	H-2
(D202)	G-5	IC916	G-2
(D351)	E-5	IC918	G-3
D362	I-6		
D363	I-6	Q101	C-2
D366	E-6	Q141	D-2
(D401)	B-7	Q142	F-3
(D402)	B-8	(Q201)	G-5
(D405)	C-9	Q202	G-4
(D406)	B-9	(Q203)	G-5
(D407)	C-8	Q204	G-5
(D461)	B-3	(Q205)	G-5
(D501)	E-5	Q206	F-4
(D502)	G-7	Q207	G-6
(D503)	G-8	Q351	C-5
(D504)	F-8	Q352	E-5
D505	G-8	Q363	F-6
(D506)	F-8	Q364	E-5
(D507)	F-8	Q401	B-7
D508	H-8	Q402	B-7
D509	H-8	Q403	B-7
D510	H-6	Q404	B-8
D511	H-7	(Q405)	C-10
D512	C-6	Q406	B-8
(D513)	G-7	(Q451)	G-11
D514	D-6	Q452	G-10
D602	C-9	(Q453)	G-10
(D603)	G-8	Q454	F-11
(D604)	C-9	(Q501)	F-5
(D605)	C-9	(Q502)	E-5
(D606)	G-9	(Q503)	F-5
(D607)	F-8	Q504	H-8
(D608)	F-7	Q506	G-6
D701	G-6	(Q602)	G-8
D702	I-9	(Q603)	F-8
D703	G-8	(Q604)	F-8
(D801)	E-8	(Q801)	E-8
(D802)	E-6	Q802	E-7
(D803)	E-7	Q803	C-5
(D804)	F-7	Q804	C-5
D851	C-6	Q805	D-6
D852	B-6	(Q806)	F-7
D861	B-5	Q807	C-6
D862	C-5	Q808	D-7
D902	I-3	Q809	D-7
D911	I-6	(Q810)	E-7
D912	H-3	Q811	D-8
		Q812	E-7
IC101	F-2	Q813	D-5
IC102	E-3	(Q814)	F-7
IC201	H-5	Q815	D-8
IC202	G-4	(Q851)	B-6
IC301	E-4	Q861	B-7
IC302	C-4	Q862	B-6
IC303	D-3	Q863	B-7
IC304	D-3	Q864	B-6
IC307	F-3	(Q865)	B-5
IC309	D-4	Q866	B-5
IC310	F-4	Q867	C-5
IC501	H-7	Q871	C-5
(IC502)	E-8	(Q872)	C-5
(IC601)	G-8	Q873	C-5
IC701	I-9	(Q901)	F-3
IC702	G-7	Q911	I-4
IC703	I-9	Q912	I-4
IC704	G-7	Q913	I-4
(IC801)	D-7	Q914	I-5

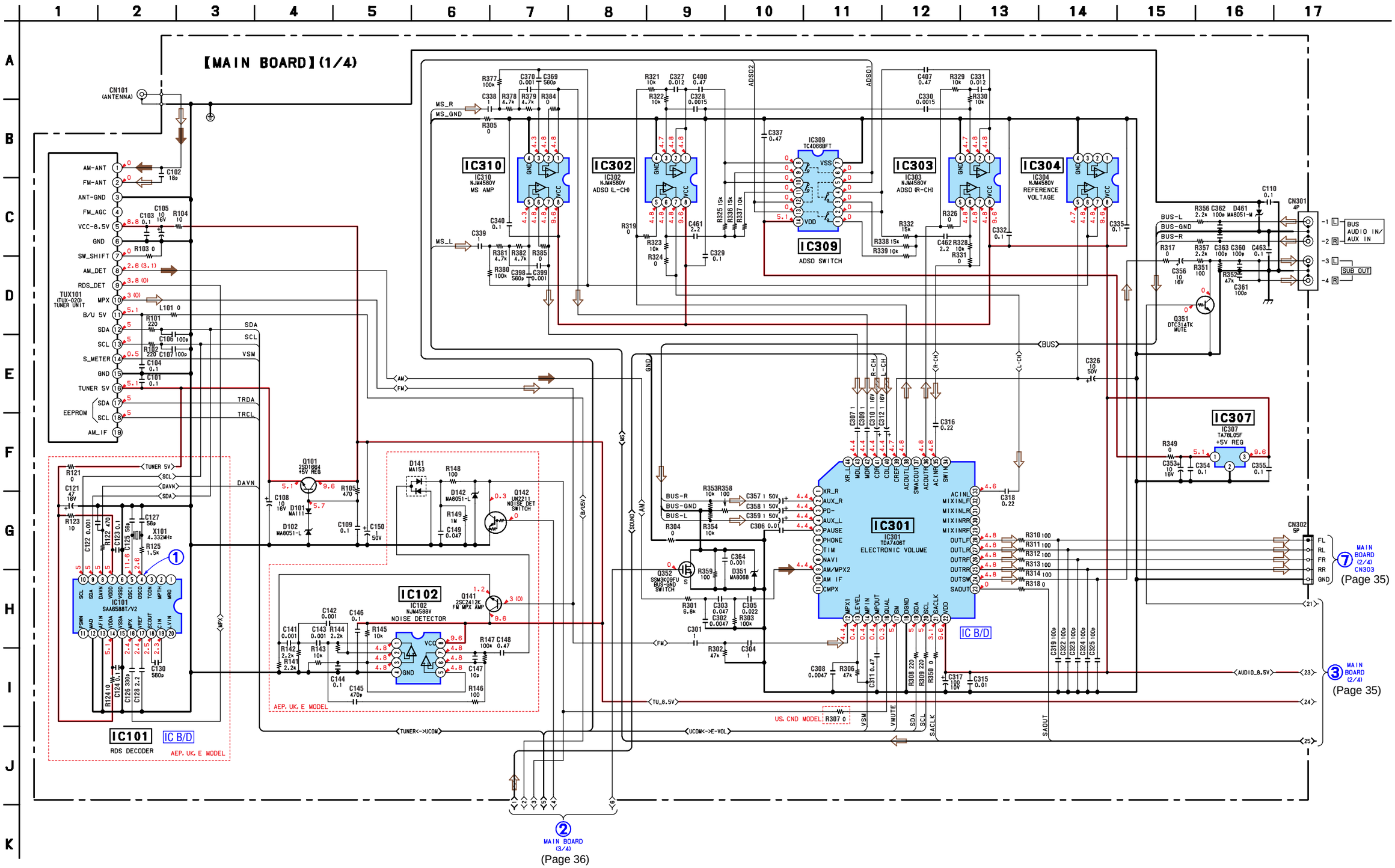
( ): SIDE B




【MAIN BOARD】
(SIDE B)
CN101
(ANTENNA)
CN301
BUS AUDIO IN/
AUX IN
SUB OUT
TUX101
(TUNER UNIT)
F901
CN601
(BUS CONTROL IN)
CN401
CN451
REAR
FRONT
CN303
CN701
W601
(OPEN/CLOSE)
【SWITCH BOARD】
S601
(OPEN)
S602
(CLOSE)
AEP,UK Model
US,Canadian E MODEL
BLK
YEL
RED
ORG
BLU
SKY BLU
GND
BATT
ACC
ILL
AMP REM
ATT
ANT REM
WHT
GRY/BLK
GRY
VIO/BLK
VIO
GRN/BLK
GRN
WHT/BLK
WHT
BLU/WHT
1-684-872-
1-684-009-

4-11. SCHEMATIC DIAGRAM — MAIN SECTION (1/4) —

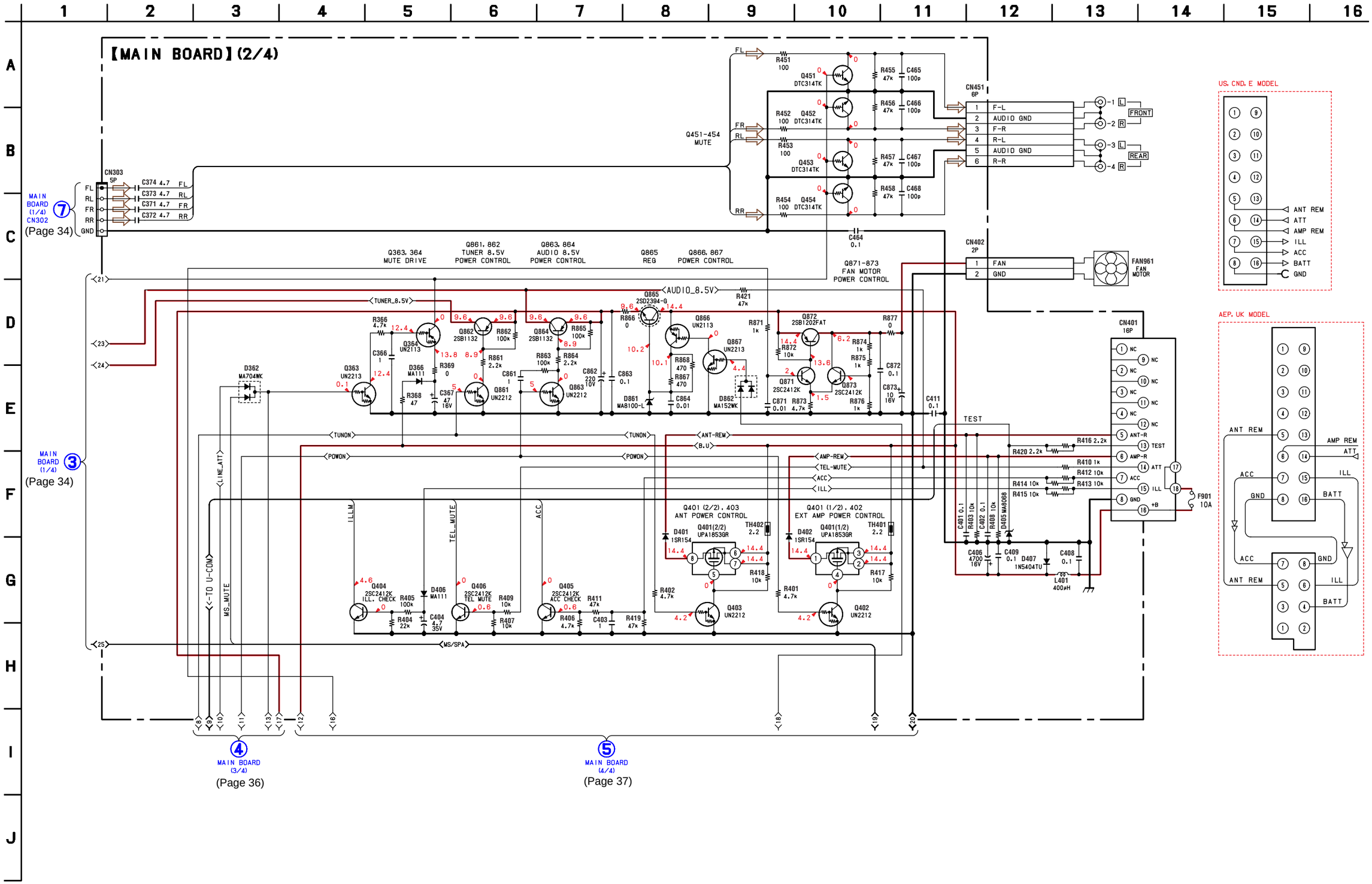
• Refer to page 27 for Waveform.
• Refer to page 43 for IC Block Diagrams.



Note:

- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : AM/MW/LW

4-12. SCHEMATIC DIAGRAM — MAIN SECTION (2/4) —

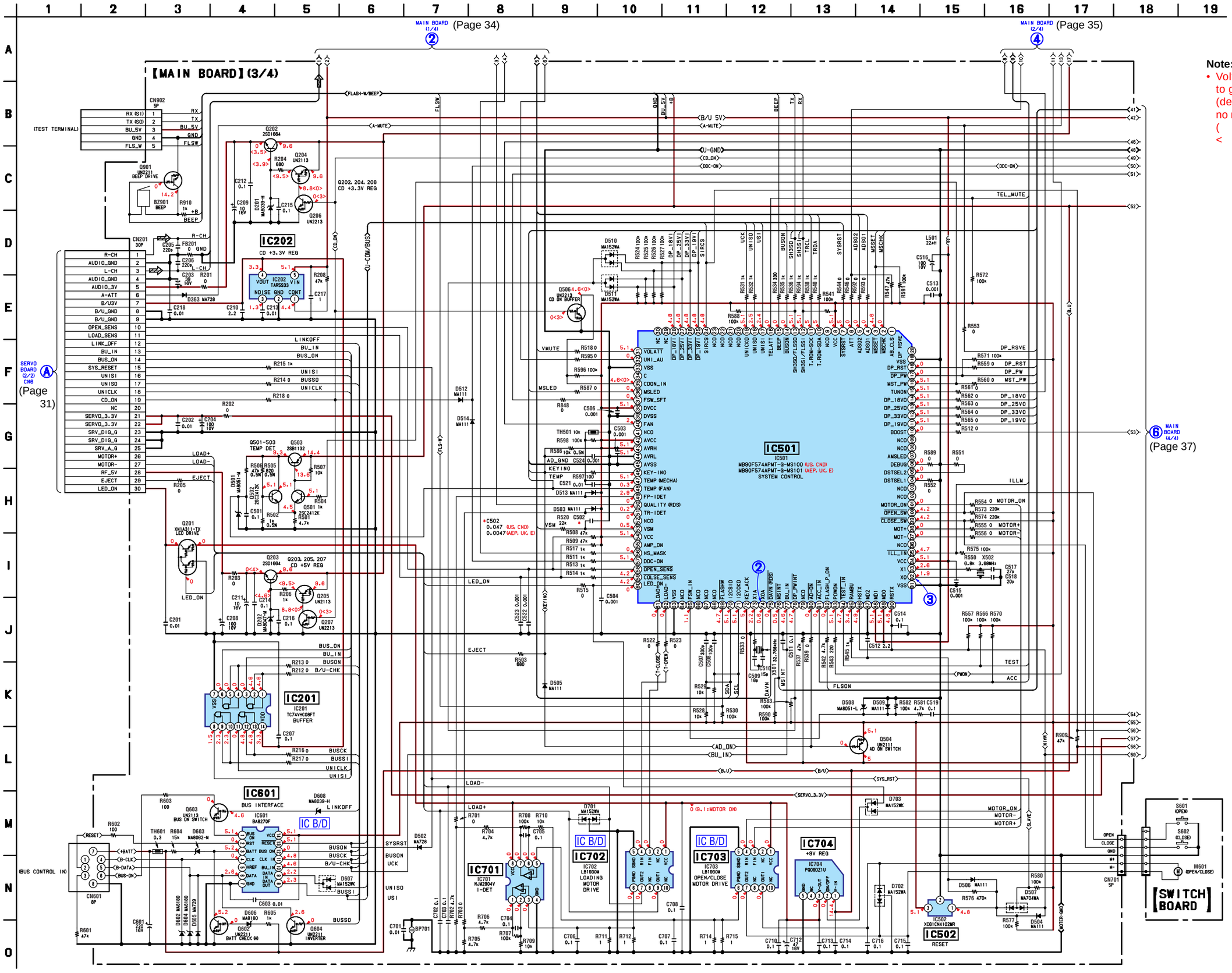


Note:

- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM

4-13. SCHEMATIC DIAGRAM — MAIN SECTION (3/4) —

• Refer to page 27 for Waveforms.
• Refer to page 45 for IC Block Diagrams.



• Refer to page 27 for Waveform.

4-14. SCHEMATIC DIAGRAM — MAIN SECTION (4/4) —

• Refer to page 45 for IC Block Diagrams.

【MAIN BOARD】(4/4)

MAIN BOARD (2/4) ⑤ (Page 35)

MAIN BOARD (3/4) ⑥ (Page 36)

[DIGITAL BOARD] CN1002 60P / CN1012 50P → Ⓑ DISPLAY BOARD CN201 (Page 39)

CN901 60P

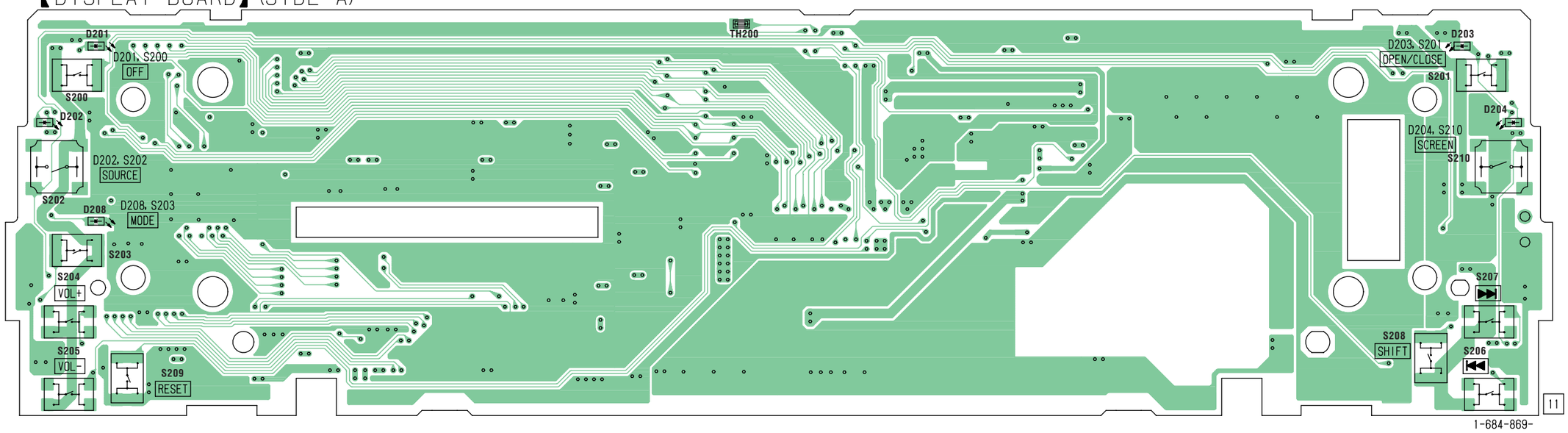
1	NC
2	MS LCH
3	DP REST (PULL-UP)
4	MS GND
5	RXD (MASTER->SH3)
6	MS RCH
7	TXD (MASTER<-SH3)
8	NC
9	ATT_ON (MASTER->SH3)
10	NC
11	SYSTEM ON (PULL-UP)
12	NC
13	MASTER PRO
14	NC
15	RESERVE
16	NC
17	RESERVE
18	SACLK
19	RESERVE
20	SAOUT
21	NC
22	NC
23	NC
24	MS_MUTE
25	2.5V ON
26	GND
27	2.5V OK
28	GND
29	1.9V ON
30	GND
31	1.9V OK
32	9.0V
33	3.3V ON
34	9.0V
35	3.3V OK
36	9.0V
37	1.8V ON
38	NC
39	1.8V OK
40	NC
41	NC
42	AMSLED
43	NC
44	5V (RF)
45	3.3V (SH3)
46	SIRCS
47	3.3V (SH3)
48	KEY INO
49	3.3V (SCARLET)
50	RESET
51	3.3V (SCARLET)
52	A/D GND
53	GND
54	TEMP
55	GND
56	MS SW
57	GND
58	MS INS
59	GND
60	LED ON

Note:

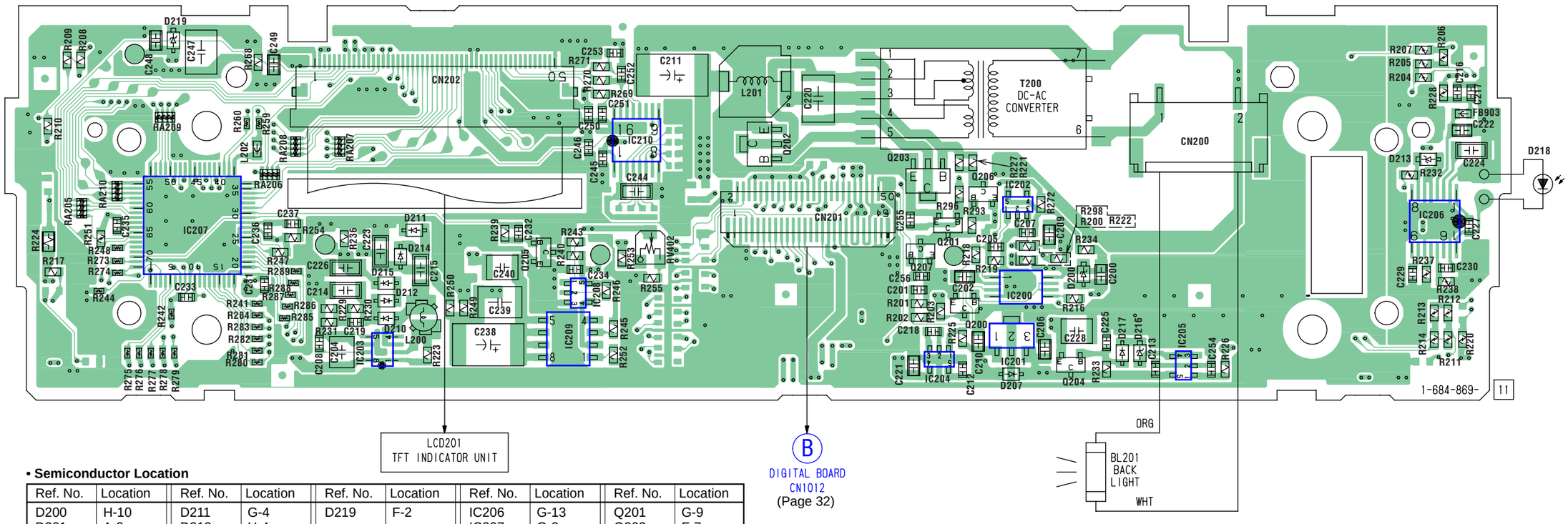
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : AM/MW/LW
  < > : CD PLAY

4-15. PRINTED WIRING BOARD — DISPLAY SECTION — • Refer to page 27 for Circuit Boards Location.

【DISPLAY BOARD】(SIDE A)



【DISPLAY BOARD】(SIDE B)



LCD201
TFT INDICATOR UNIT

B
DIGITAL BOARD
CN1012
(Page 32)

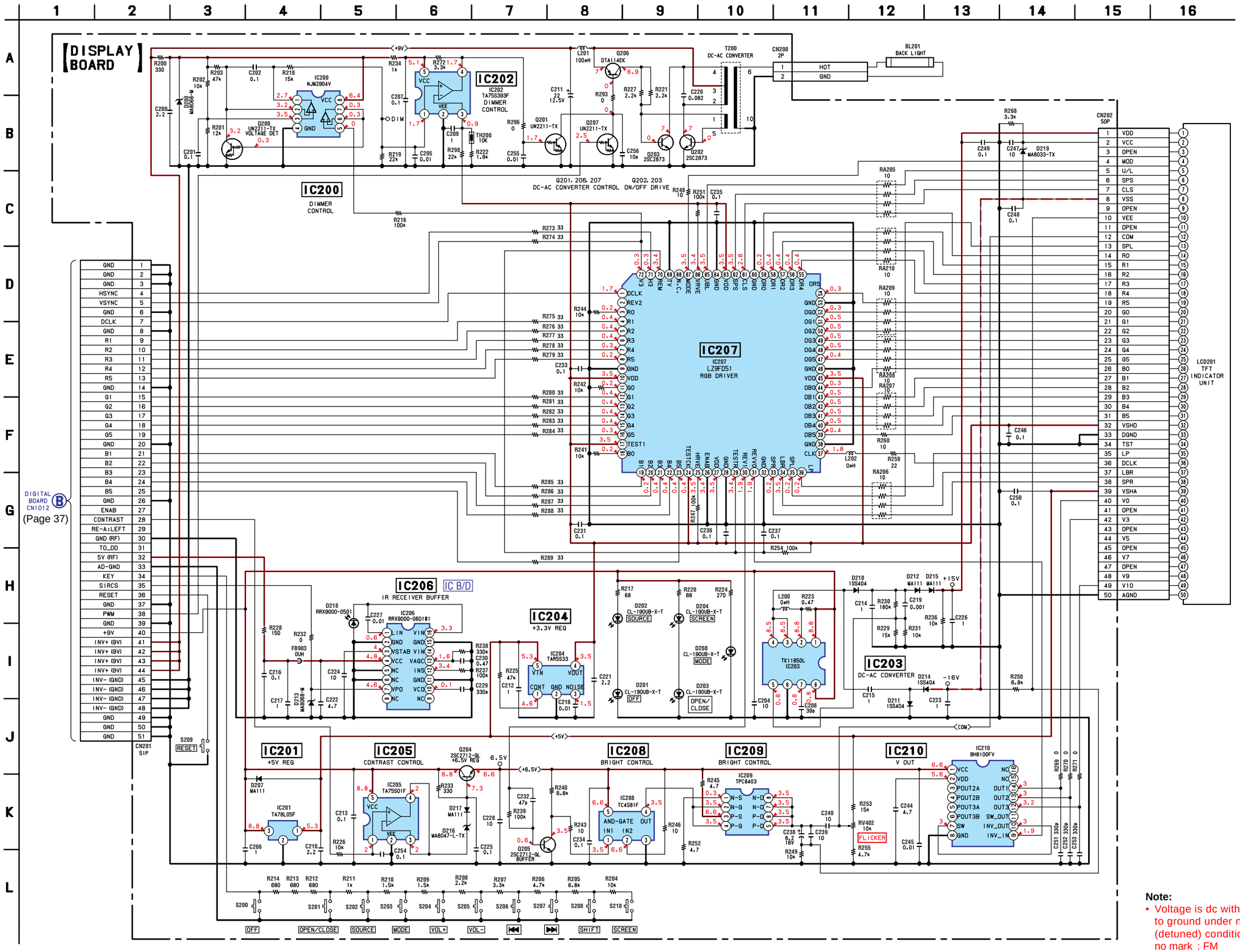
ORG
BL201
BACK
LIGHT
WHT

• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D200	H-10	D211	G-4	D219	F-2	IC206	G-13	Q201	G-9
D201	A-2	D212	H-4			IC207	G-2	Q202	F-7
D202	B-1	D213	G-13	IC200	H-9	IC208	H-6	Q203	G-9
D203	A-13	D214	G-4	IC201	H-9	IC209	H-6	Q204	H-10
D204	B-13	D215	H-4	IC202	G-9	IC210	F-6	Q205	G-5
D207	H-9	D216	H-11	IC203	H-4			Q206	G-9
D208	C-2	D217	H-10	IC204	H-9	Q200	H-9	Q207	G-9
D210	H-4	D218	G-14	IC205	H-11				

38

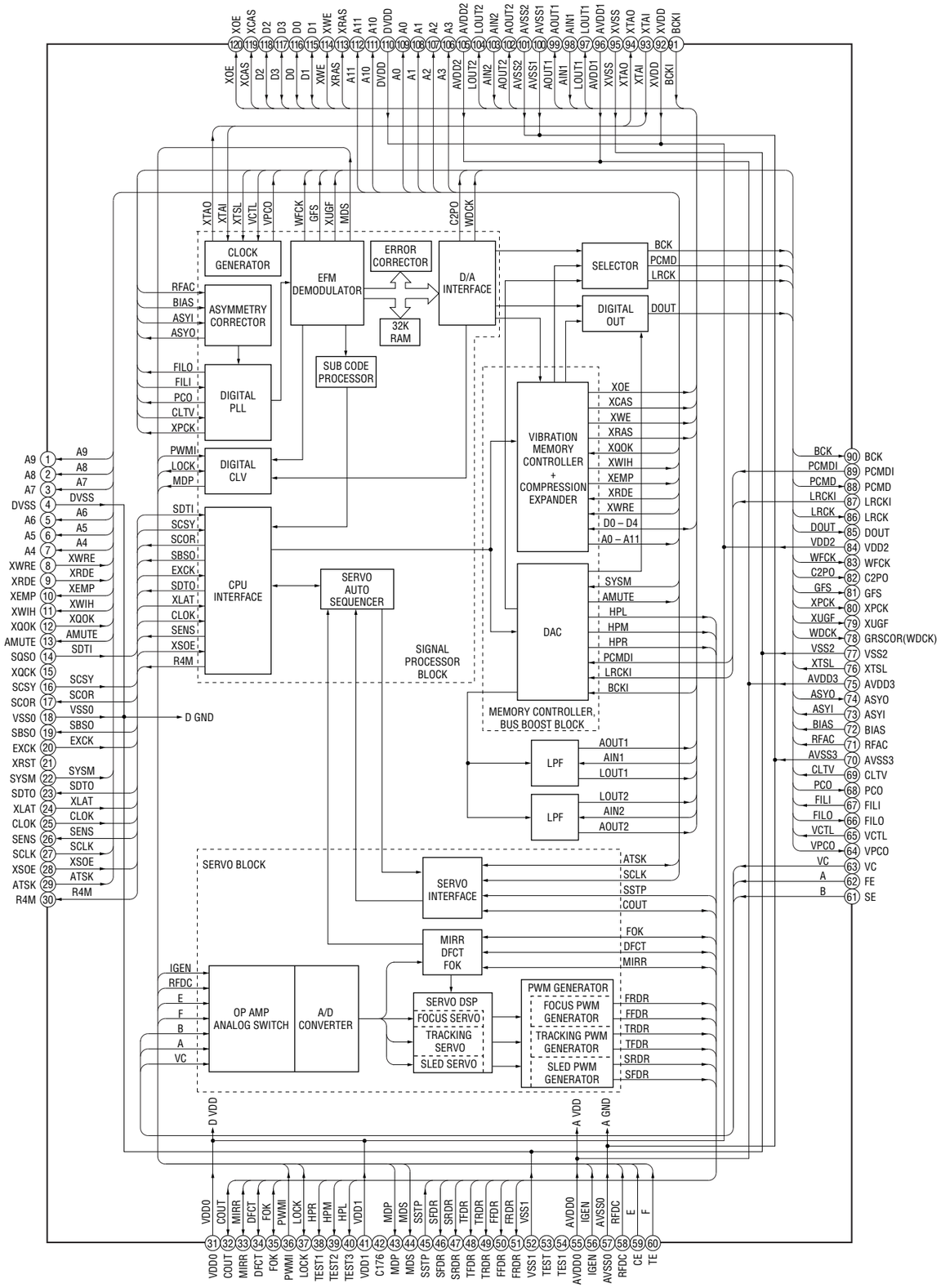
4-16. SCHEMATIC DIAGRAM — DISPLAY SECTION — • Refer to page 45 for IC Block Diagram.



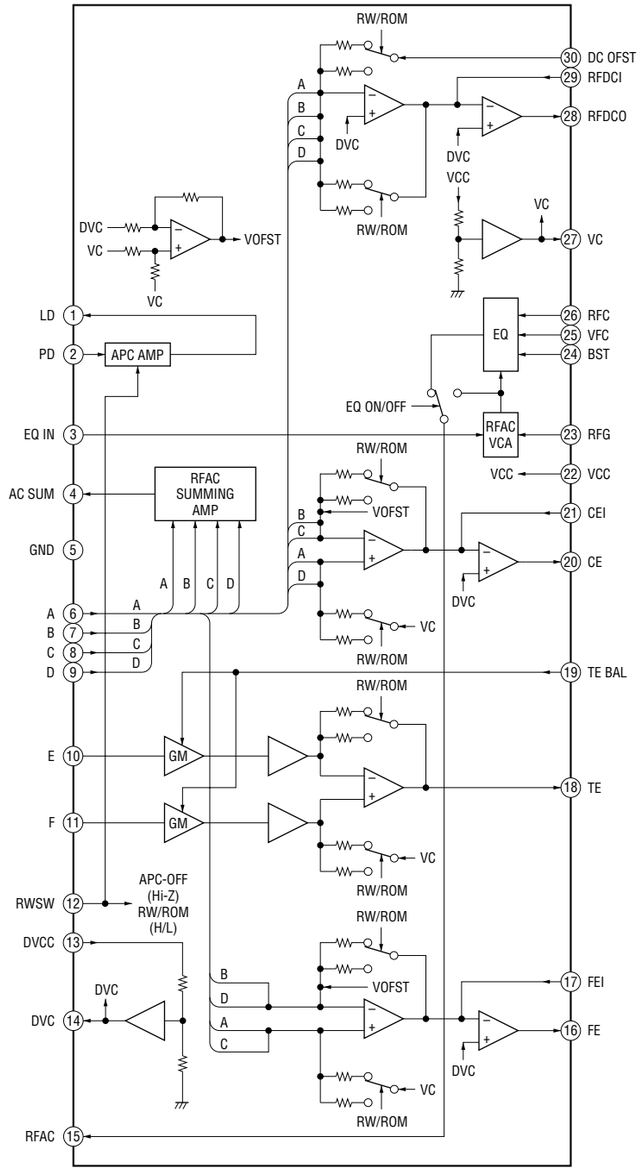
Note:
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM

• IC BLOCK DIAGRAMS

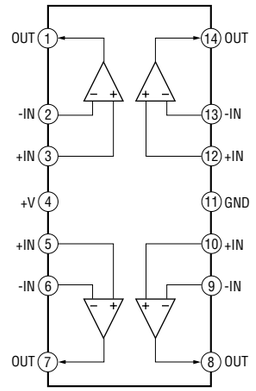
IC1 CXD3027R



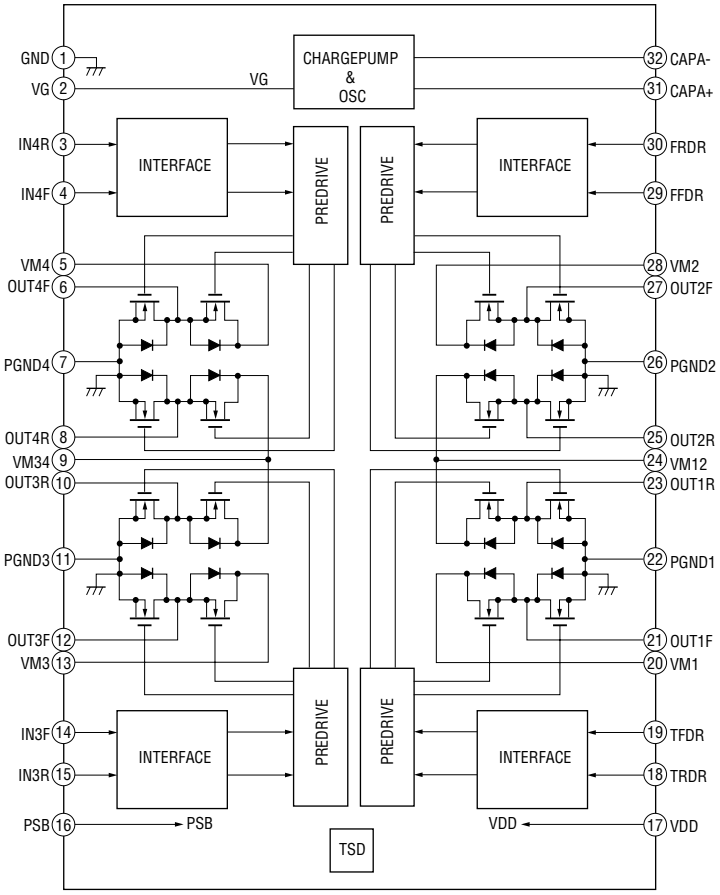
IC2 CXA2581N-T4



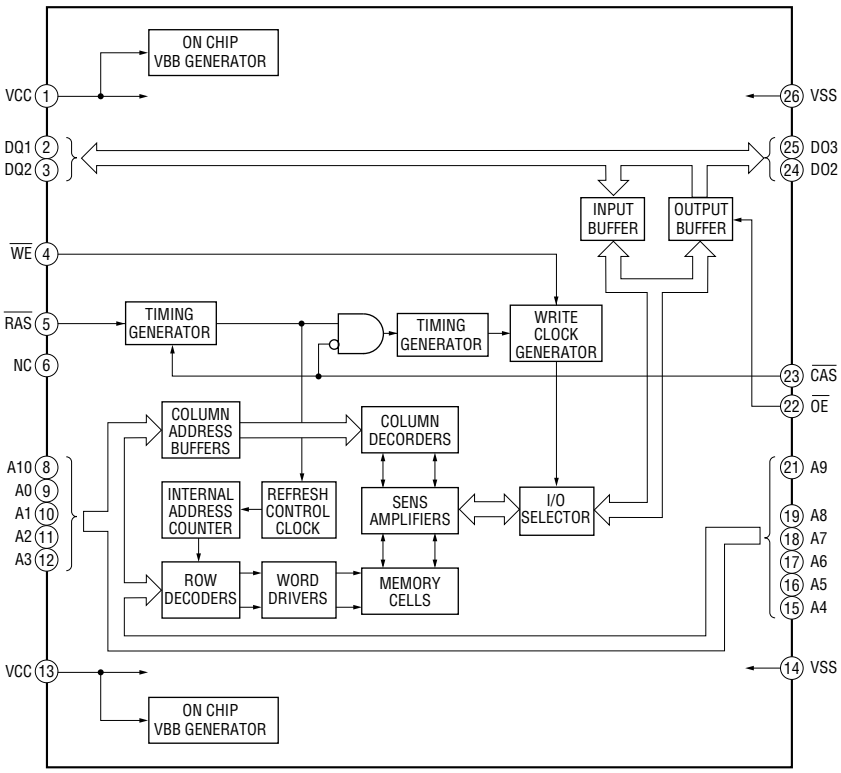
IC3 NJM12902V (TE2)



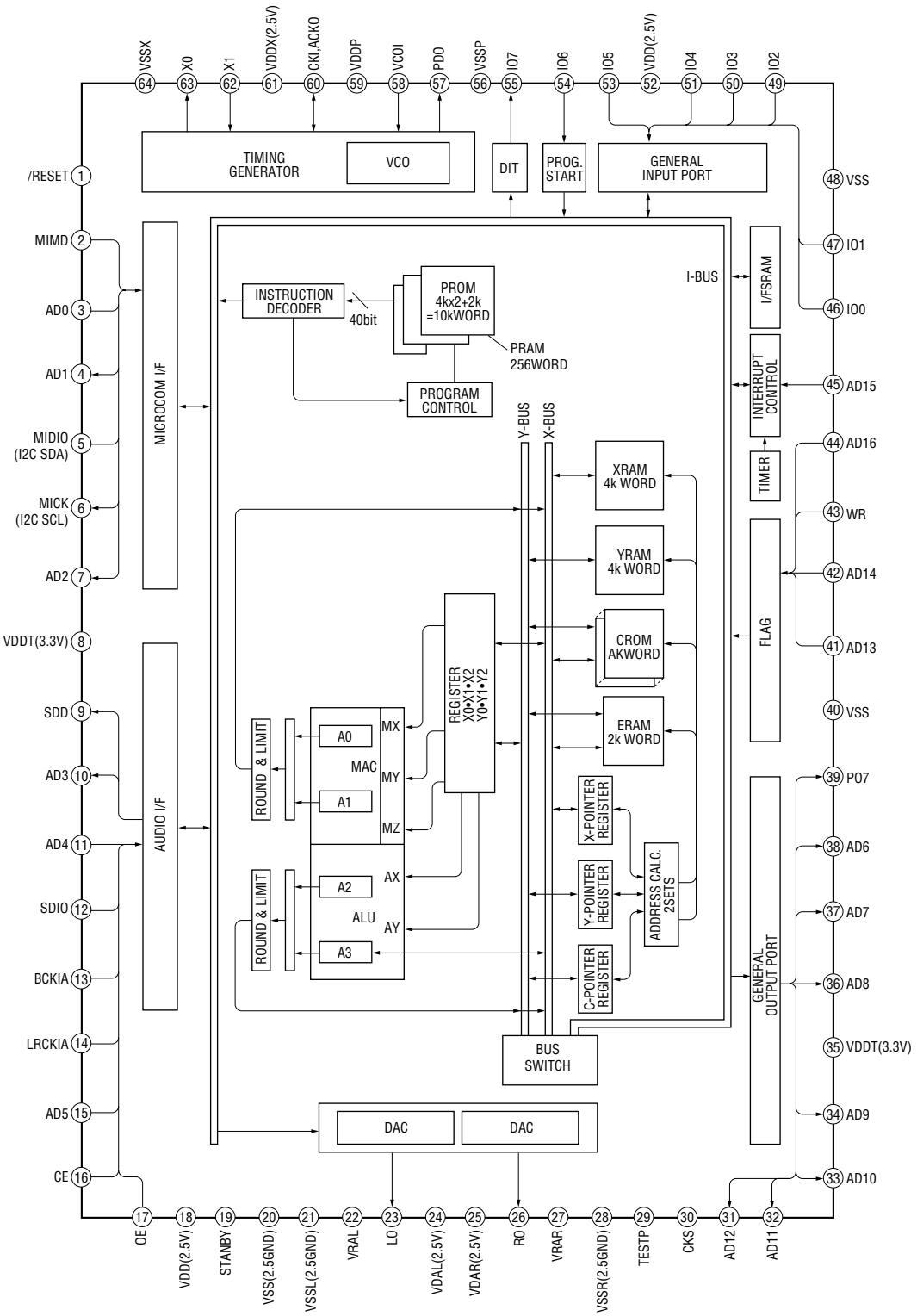
IC8 BH6518FS-E2



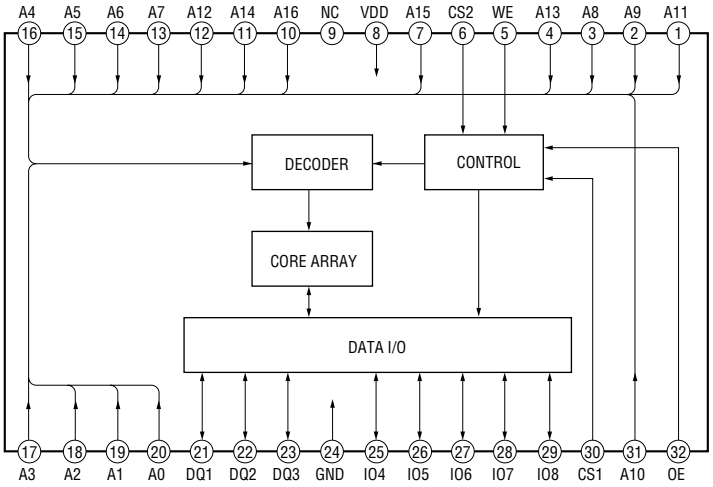
IC6 MSM51V17400D-10TK-FS



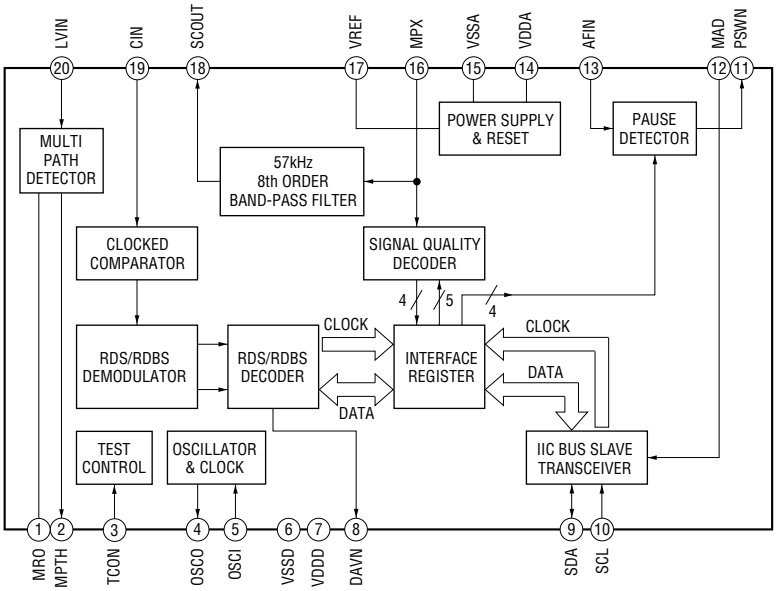
IC5 CXD9684R-004



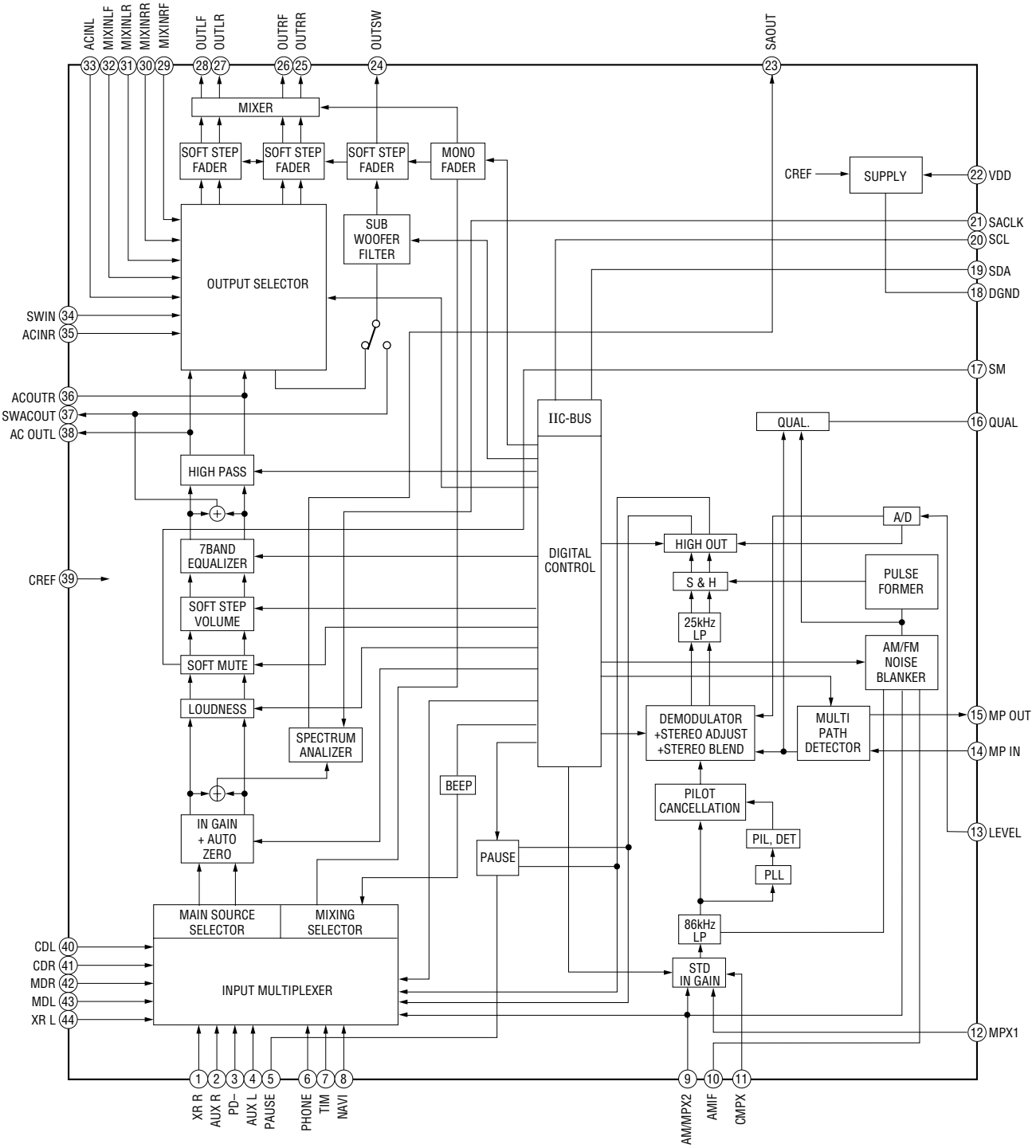
IC4 W24L010AT-12-EL15



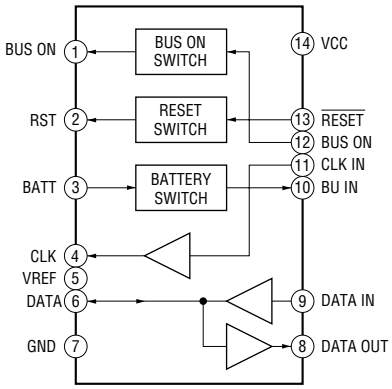
IC101 SAA6588T/V2



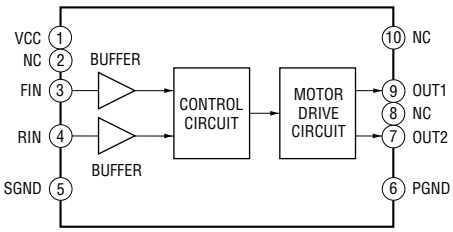
IC301 TDA7406T



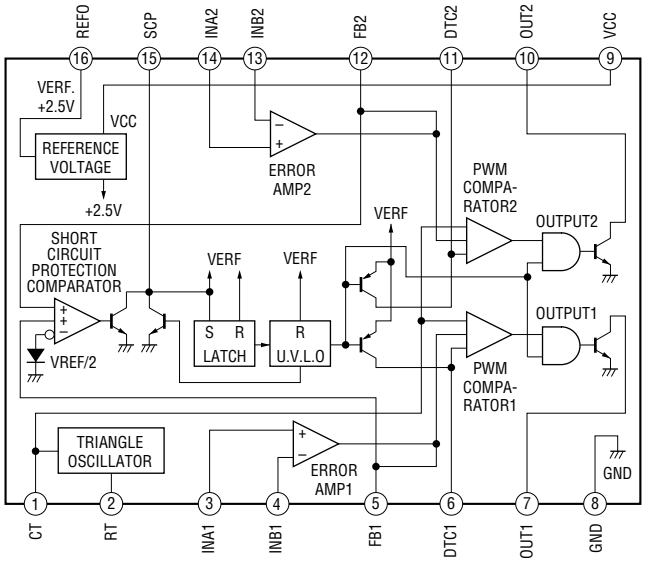
IC601 BA8270F



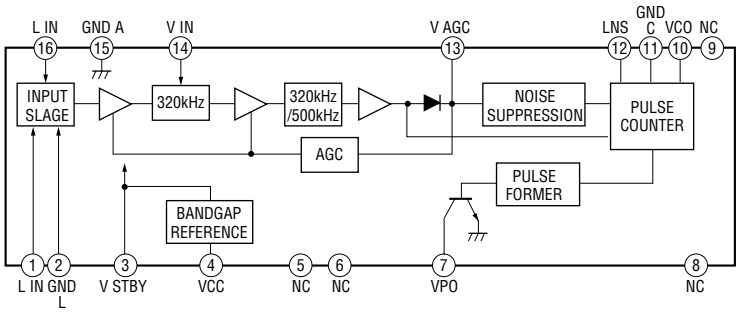
IC702 LB1930M
IC703 LB1930M



IC801 TL1451ACDB
IC802 TL1451ACDB



IC206 RRX9000-0601#1



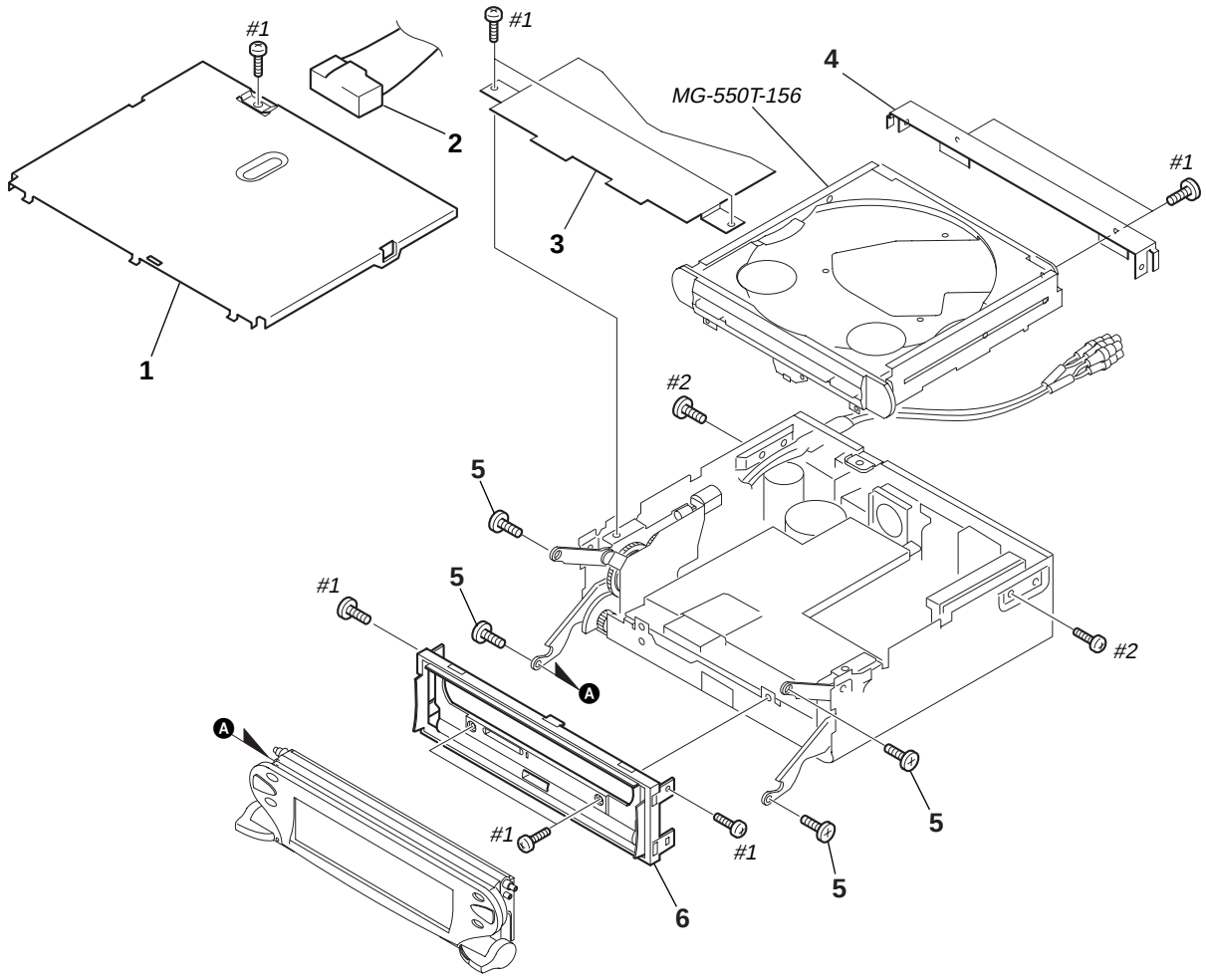
SECTION 5
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Accessories are given in the last of this parts list.
- Abbreviation
  CND: Canadian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

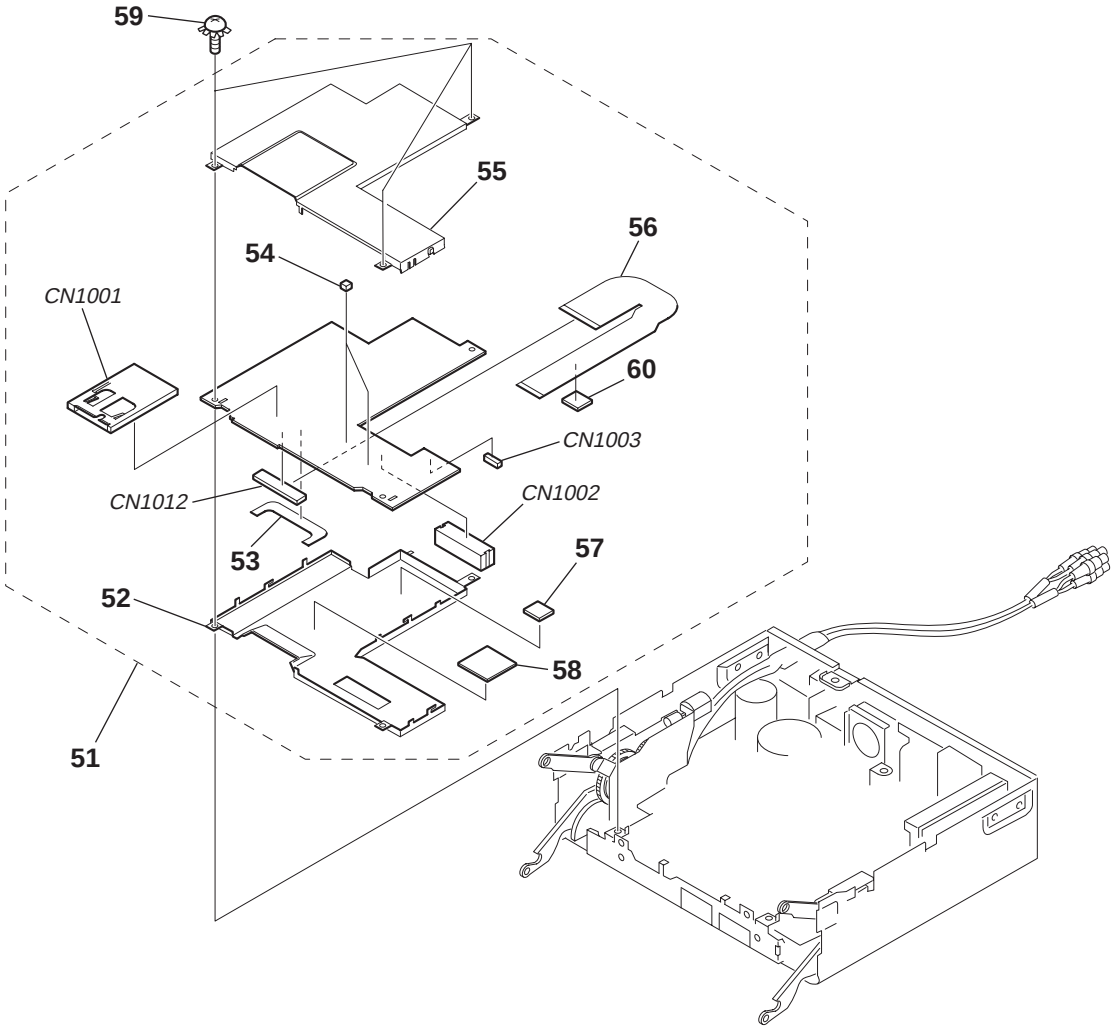
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

5-1. CHASSIS SECTION



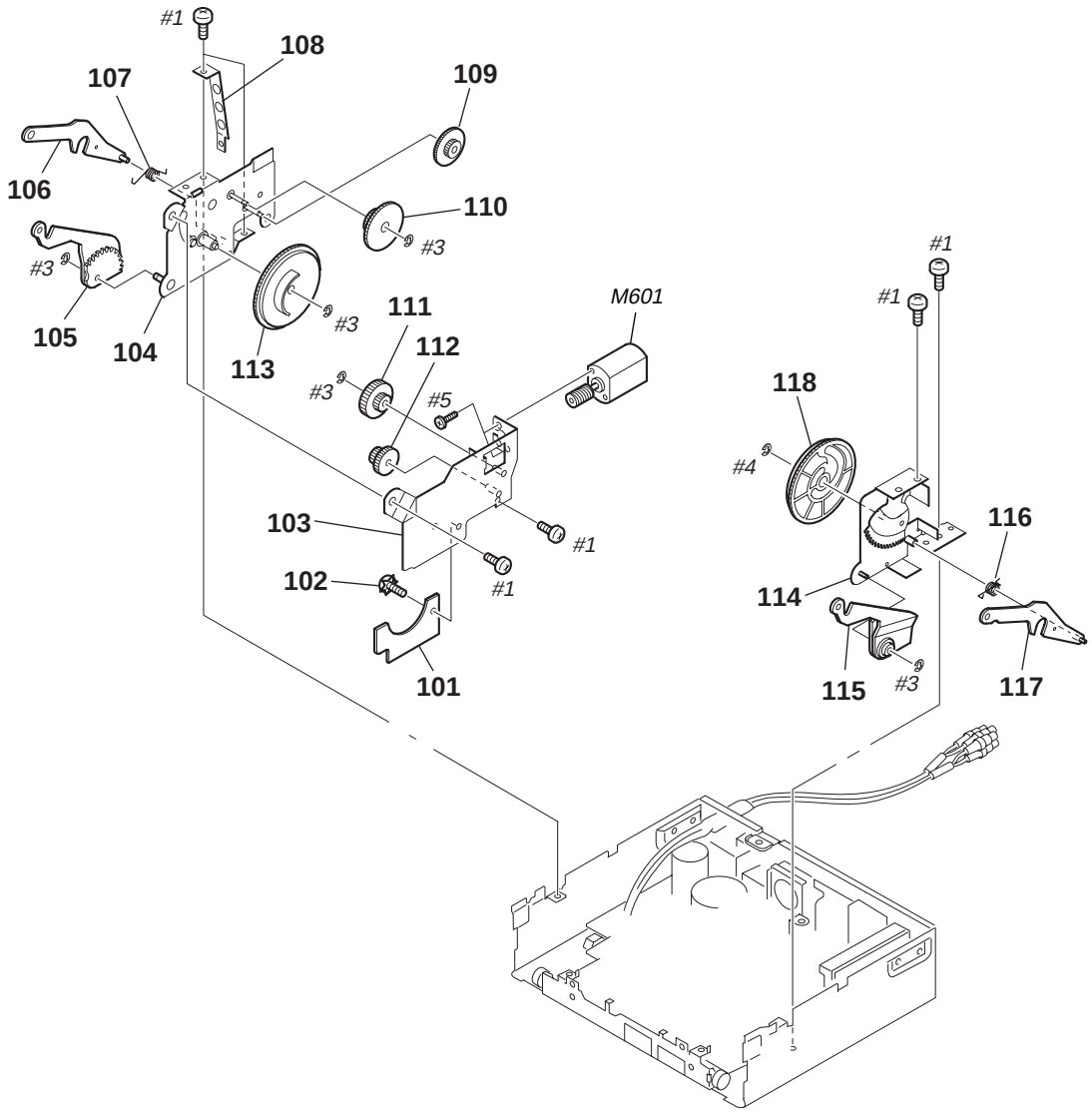
Ref. No.	Part No.	Description	Remark
1	3-236-999-11	COVER	
2	A-3315-643-A	CORD (U) ASSY, CONNECTOR (US,CND,E)	
2	A-3315-654-A	CORD (EUR) ASSY, CONNECTOR (AEP,UK)	
3	3-236-998-01	BRACKET (COVER)	
4	3-236-963-01	BRACKET (TRAY)	
5	3-242-039-01	SCREW (THIN HEAD M1.4)	
6	X-3382-048-1	PANEL (CD) ASSY, SUB (AEP,UK,E)	
6	X-3382-166-1	PANEL (CD) ASSY, SUB (US,CND)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	

5-2. DIGITAL BOARD SECTION



Ref. No.	Part No.	Description	Remark
51	A-3274-275-A	DIGITAL BOARD, COMPLETE	
52	3-241-859-01	CASE (2F-A), SHIELD	
53	3-241-865-01	SHEET (2F-A)	
54	3-241-866-01	SPACER (PM)	
55	3-241-860-01	CASE (2F-B), SHIELD	
56	1-684-871-11	FLEXIBLE BOARD	
57	3-241-867-01	SHEET (RADIATION SH3)	
58	3-241-868-01	SHEET (RADIATION SCARLET)	
59	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
* 60	3-326-457-01	CUSHION	
CN1001	1-816-510-11	CONNECTOR, MS (PUSH.PUSH)	
CN1002	1-816-480-11	CONNECTOR, BOARD TO BOARD 60P	
CN1003	1-750-862-21	PIN, CONNECTOR (PC BOARD) 5P	
CN1012	1-816-511-21	CONNECTOR, FFC/FPC (ZIF) 50P	

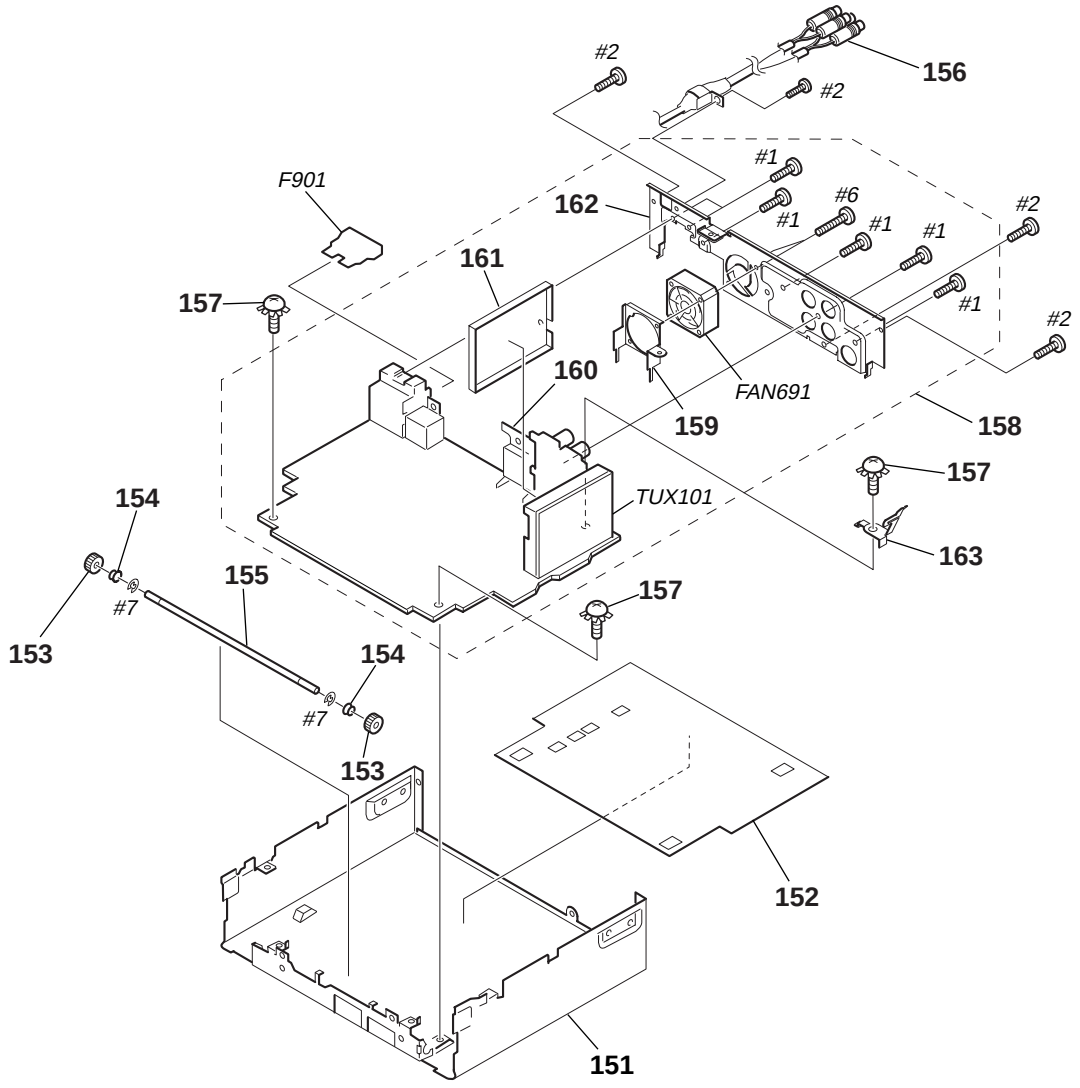
5-3. CAM SECTION



Ref. No.	Part No.	Description	Remark
101	A-3274-407-A	SWITCH BOARD, COMPLETE	
102	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
103	X-3381-368-1	BRACKET (SUB L) (RIVETING) ASSY	
104	X-3381-359-1	BRACKET (MAIN L) ASSY	
105	X-3381-599-1	ARM (D.L) ASSY	
106	X-3382-167-1	ARM (U.L.T) ASSY	
107	3-243-374-11	SPRING (ARM L)	
108	3-238-628-01	COVER (PROTECTION)	
109	3-237-004-01	GEAR (B)	
110	3-237-005-01	GEAR (C)	
111	3-236-946-01	GEAR (WORM WHEEL)	
112	3-237-003-01	GEAR (A)	

Ref. No.	Part No.	Description	Remark
113	3-236-947-01	GEAR (CAM L)	
114	X-3381-360-1	BRACKET (MAIN R) ASSY	
115	X-3381-600-1	ARM (D.R) ASSY	
116	3-243-373-11	SPRING (ARM R)	
117	X-3382-168-1	ARM (U.R.T) ASSY	
118	3-236-961-01	GEAR (CAM R)	
M601	A-3315-622-A	MOTOR ASSY (OPEN/CLOSE)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#3	7-624-104-04	RETAINING, RING E-2	
#4	7-624-106-04	STOP RING 3.0, TYPE -E	
#5	7-627-553-28	SCREW, PRECISION +P 2X2.5	

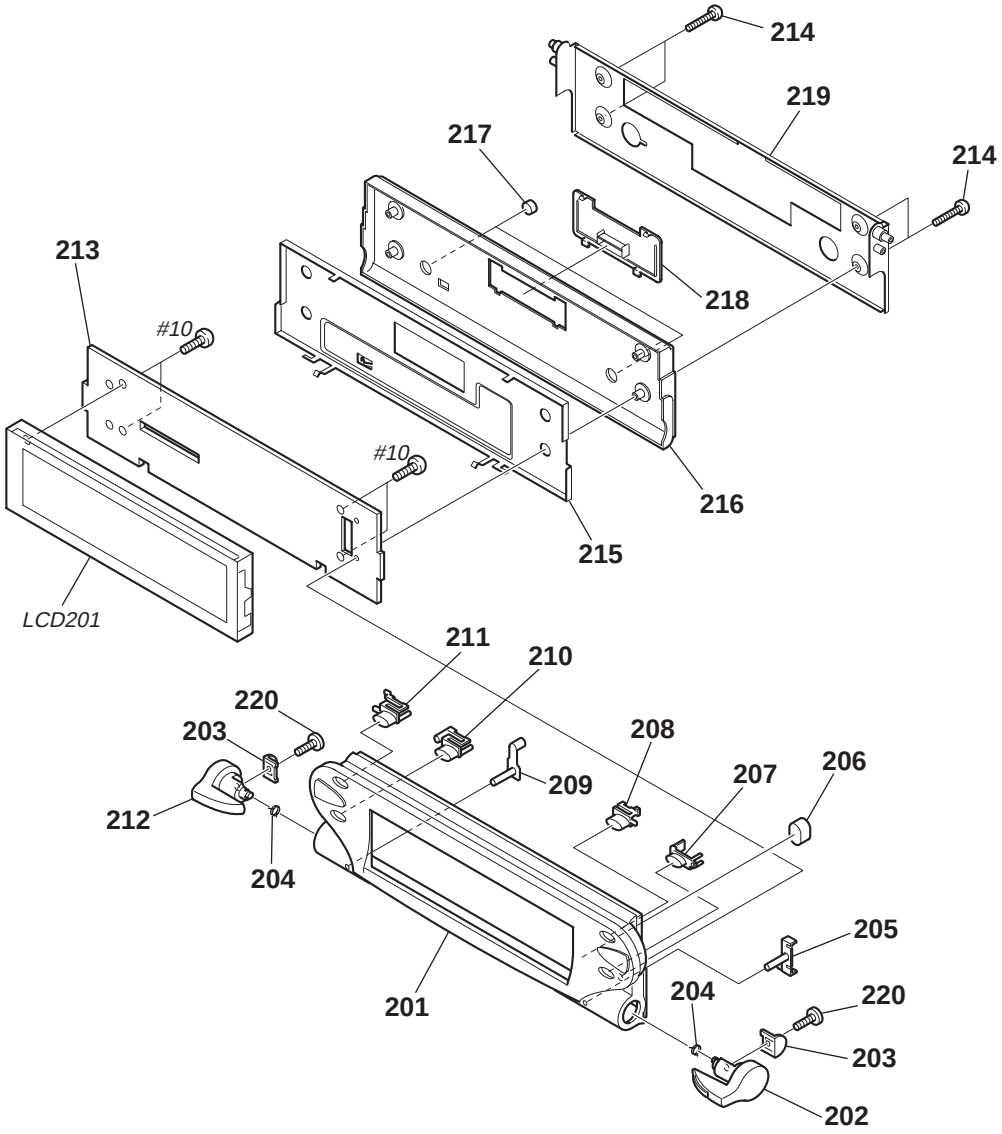
5-4. MAIN BOARD SECTION



Ref. No.	Part No.	Description	Remark
151	X-3382-057-1	CHASSIS ASSY	
152	3-241-864-01	SHEET (INSULATING MAIN)	
153	3-230-493-01	GEAR (DRIVE SHAFT)	
154	3-230-444-01	GUIDE (DRIVE SHAFT)	
155	3-243-674-01	SHAFT, DRIVE	
156	1-824-096-11	CORD, CONNECTION 4P (AUDIO OUT FRONT/REAR)	
157	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
158	A-3274-377-A	MAIN BOARD, COMPLETE (US,CND)	
158	A-3274-380-A	MAIN BOARD, COMPLETE (AEP,UK,E)	
159	3-241-855-01	BRACKET (FAN)	
160	3-241-854-01	BRACKET (REG)	

Ref. No.	Part No.	Description	Remark
161	3-241-862-01	CASE (TUX-A), SHIELD (AEP,UK,E)	
162	3-241-861-11	CHASSIS (BACK)	
163	3-243-565-01	PLATE (ANT), GROUND	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
FAN691	1-763-815-11	FAN, DC (25X25)	
TUX101	A-3220-812-A	TUNER UNIT (TUX-020)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	
#6	7-685-797-09	SCREW +PTT 2.6X16 (S)	
#7	7-624-118-01	RING, RETAINING E-2.5	

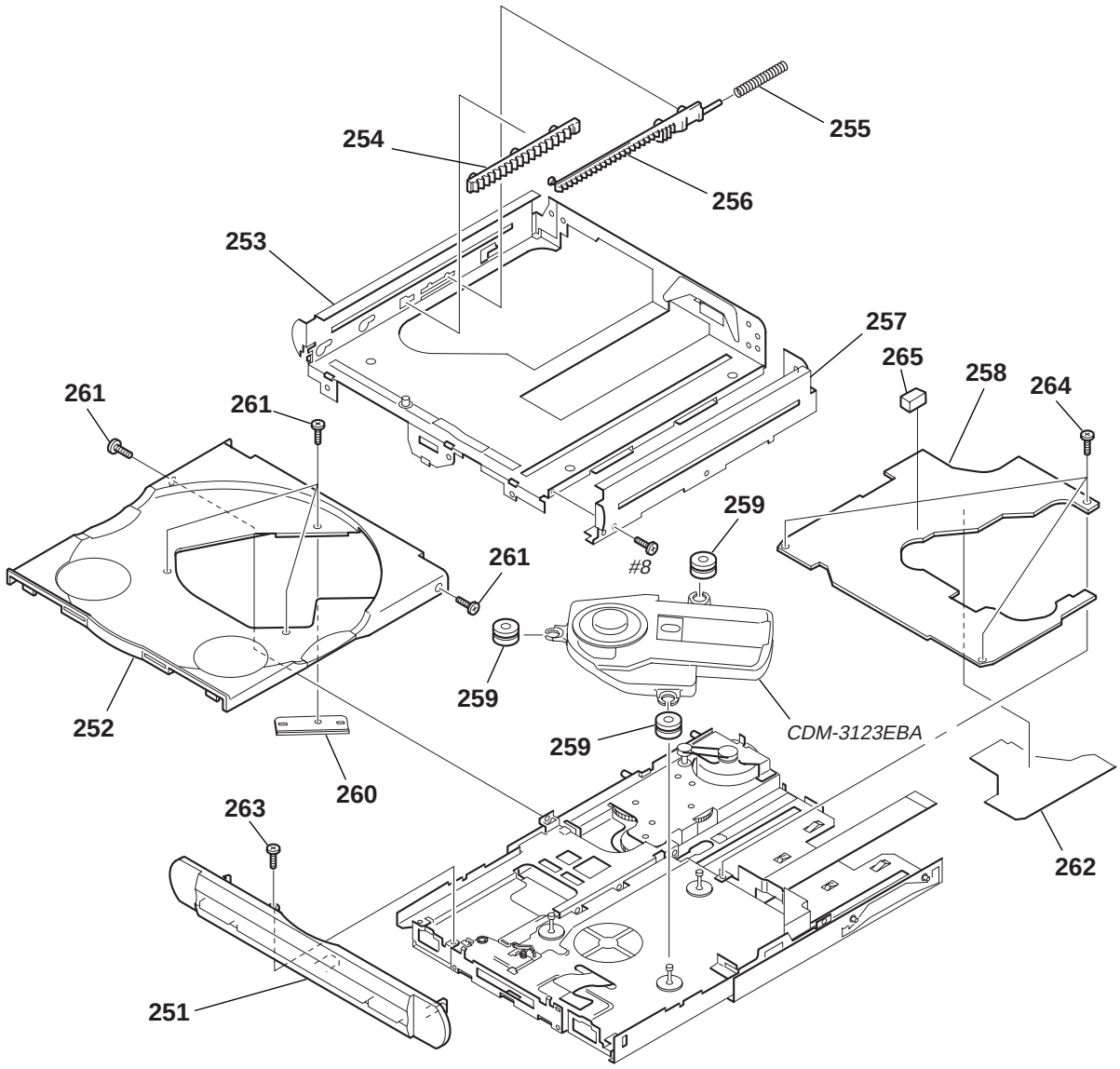
5-5. FRONT PANEL ASSY SECTION



Ref. No.	Part No.	Description	Remark
201	A-3290-951-A	PANEL (FRONT) ASSY (US,CND)	
201	A-3315-575-A	PANEL (FRONT) ASSY (AEP,UK,E)	
202	X-3382-064-1	LEVER (AMS) ASSY	
203	3-241-842-01	CONTACT (TACT)	
204	3-241-850-01	SPRING (LEVER)	
205	3-241-840-01	RELAY (SHIFT)	
206	3-231-433-01	CUSHION (ELECTROSTATIC)	
207	3-241-847-01	FILTER (IR)	
208	3-241-835-01	BUTTON (OPEN/CLOSE)	
209	3-241-846-01	BUTTON (RESET)	
210	3-241-845-01	BUTTON (MODE)	
211	3-241-844-01	BUTTON (OFF)	

Ref. No.	Part No.	Description	Remark
212	3-241-843-01	LEVER (VOL)	
213	A-3274-272-A	DISPLAY BOARD, COMPLETE	
214	3-564-708-91	SCREW (+P 2X14) (TYPE2)	
215	3-241-870-01	PLATE (PANEL), SHIELD	
216	3-241-834-01	PANEL (FRONT BACK)	
217	3-241-849-01	CUSHION (FB)	
218	3-241-832-01	COVER (FPC)	
219	X-3382-046-1	PANEL (BASE) ASSY	
220	3-244-319-01	SCREW (B2), TAPPING	
LCD201	1-477-252-11	INDICATOR UNIT, TFT	
#10	7-685-132-19	SCREW +P 2.6X5 TYPE2 NON-SLIT	

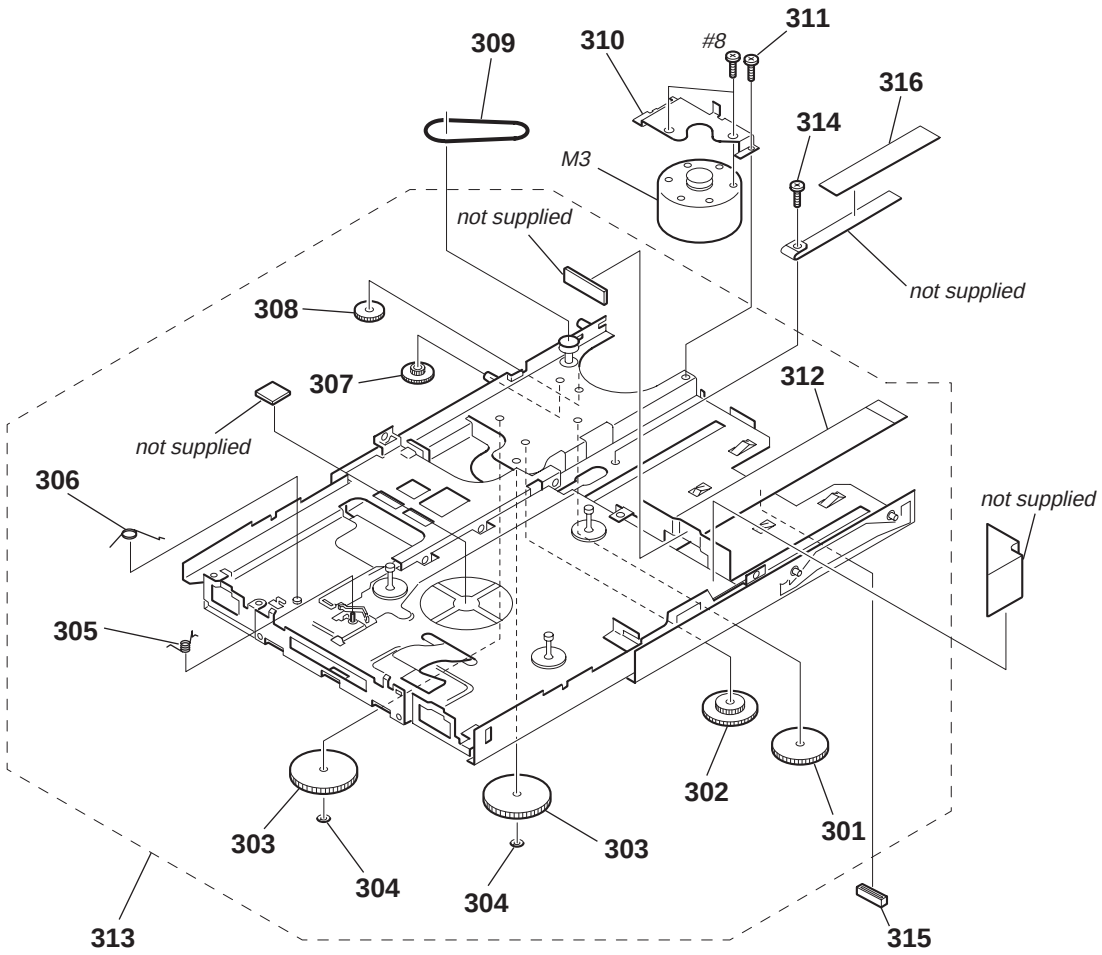
5-6. CD MECHANISM SECTION (1)
(MG-550T-156)



Ref. No.	Part No.	Description	Remark
251	X-3382-184-1	PANEL (T) ASSY	
252	X-3381-023-1	TRAY (UM) ASSY	
253	X-3381-029-1	CHASSIS (ML) ASSY	
254	3-234-353-01	RACK (M)	
255	3-234-328-01	SPRING (SUB RACK M), COMPRESSION	
256	3-234-326-01	RACK (SUB M)	
257	3-234-352-01	CHASSIS (MR)	
258	A-3274-221-A	SERVO BOARD, COMPLETE	

Ref. No.	Part No.	Description	Remark
259	3-235-473-01	INSULATOR	
260	3-235-454-01	SPRING (LC-M), PLATE	
261	2-134-636-31	SCREW (M1.7X2.5)	
262	3-236-286-01	COVER (BOARD)	
263	2-626-869-01	SCREW (M2X3), SERRATION	
264	4-628-646-11	SCREW (M2X3.5), TOOTHED LOCK (+) P	
265	3-243-340-01	CUSHION (PWB)	
#8	7-627-852-38	SCREW, PRECISION +P 1.7X1.8 TYPE3	

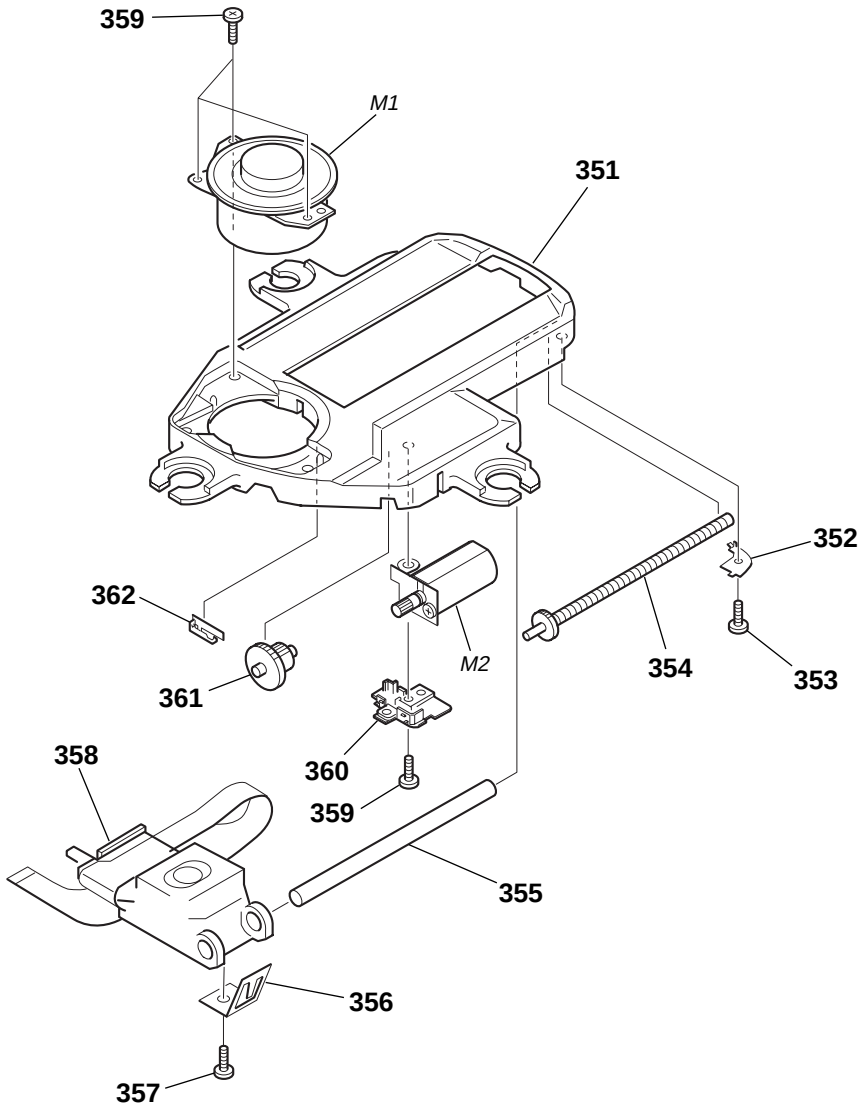
5-7. CD MECHANISM SECTION (2)
(MG-550T-156)



Ref. No.	Part No.	Description	Remark
301	3-234-340-01	GEAR (4)	
302	3-234-339-01	GEAR (5)	
303	3-234-330-01	GEAR (6)	
304	3-321-813-01	WASHER, COTTER POLYETHYLENE	
305	3-234-327-01	SPRING (LEVER LOCK), TORSION	
306	3-234-331-01	SPRING (SUB RACK D), TORSION	
307	3-234-337-01	GEAR (2)	
308	3-234-338-01	GEAR (3)	
309	3-234-336-01	BELT (L)	

Ref. No.	Part No.	Description	Remark
310	3-234-348-01	BRACKET (MOTOR)	
311	4-639-357-21	SCREW (M1.7)	
312	1-763-734-12	MOTOR FLEXIBLE BOARD	
313	X-3381-224-1	BLOCK (M) ASSY, TRAY	
314	3-236-897-01	SCREW (+P M1.4 MECH)	
315	3-240-293-01	STOPPER (M)	
316	3-241-004-02	CUSHION (FPC), SARANET	
M3	X-3381-240-1	MOTOR ASSY, LE (LOADING)	
#8	7-627-852-38	SCREW, PRECISION +P 1.7X1.8 TYPE3	

5-8. CD MECHANISM DECK SECTION (CDM-3123EBA)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
351	4-218-820-01	CHASSIS	
352	4-218-827-02	RETAINER, SHAFT	
353	3-686-458-03	SCREW (P1.4X3.5), TAPPING	
354	A-3328-628-A	SCREW (FEED) ASSY	
355	4-220-645-02	SHAFT, STANDARD	
356	4-223-600-01	RACK	
357	3-895-823-61	SCREW (B1.4X2.3), TAPPING	
⚠358	X-4952-506-1	RP ASSY, DAX-23E	
359	3-318-203-71	SCREW (B1.7X5), TAPPING	
360	4-218-821-01	COVER, GEAR	
361	4-218-823-01	GEAR (B)	
362	4-218-825-01	SPRING, SLED	
M1	A-3328-759-A	MOTOR ASSY, TURNTABLE (SPINDLE)	
M2	A-3328-627-A	MOTOR ASSY, SLED (SLED)	

DIGITAL | DISPLAY

SECTION 6
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Abbreviation
  CND: Canadian model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	A-3274-275-A	DIGITAL BOARD, COMPLETE			
		**********			
	1-684-871-11	FLEXIBLE BOARD			
	3-241-859-01	CASE (2F-A), SHIELD			
	3-241-860-01	CASE (2F-B), SHIELD			
	3-241-865-01	SHEET (2F-A)			
	3-241-866-01	SPACER (PM)			
	3-241-867-01	SHEET (RADIATION SH3)			
	3-241-868-01	SHEET (RADIATION SCARLET)			
		< CONNECTOR >			
CN1001	1-816-510-11	CONNECTOR, MS (PUSH.PUSH)			
CN1002	1-816-480-11	CONNECTOR, BOARD TO BOARD 60P			
CN1003	1-750-862-21	PIN, CONNECTOR (PC BOARD) 5P			
CN1012	1-816-511-21	CONNECTOR, FFC/FPC (ZIF) 50P			
**********					
	A-3274-272-A	DISPLAY BOARD, COMPLETE			
		**********			
	7-685-132-19	SCREW +P 2.6X5 TYPE2 NON-SLIT			
		< CAPACITOR >			
C200	1-125-889-11	CERAMIC CHIP	2.2uF	10%	10V
C201	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C202	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C204	1-127-692-11	CERAMIC CHIP	10uF	10%	16V
C205	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C206	1-164-346-11	CERAMIC CHIP	1uF		16V
C207	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C208	1-162-922-11	CERAMIC CHIP	39PF	5%	50V
C209	1-164-346-11	CERAMIC CHIP	1uF		16V
C210	1-125-889-11	CERAMIC CHIP	2.2uF	10%	10V
C211	1-131-618-21	ELECT CHIP	22uF	20%	12.5V
C212	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C213	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C214	1-137-988-11	CERAMIC CHIP	1uF	10%	35V
C215	1-137-988-11	CERAMIC CHIP	1uF	10%	35V
C216	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C217	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C218	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C219	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C220	1-100-009-11	ELECT CHIP	0.082uF	5%	50V
C221	1-125-889-11	CERAMIC CHIP	2.2uF	10%	10V
C222	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C223	1-137-988-11	CERAMIC CHIP	1uF	10%	35V
C224	1-127-692-11	CERAMIC CHIP	10uF	10%	6.3V
C225	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C226	1-137-988-11	CERAMIC CHIP	1uF	10%	35V
C227	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C228	1-127-692-11	CERAMIC CHIP	10uF	10%	16V
C229	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C230	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C231	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C232	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C233	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C234	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C235	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C236	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C237	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C238	1-165-955-21	ELECT CHIP	8.2uF	20%	16V
C239	1-135-405-11	CERAMIC CHIP	10uF	10%	25V
C240	1-127-692-11	CERAMIC CHIP	10uF	10%	16V
C244	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V
C245	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C246	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C247	1-135-405-11	CERAMIC CHIP	10uF	10%	25V
C248	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C249	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C250	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C251	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C252	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C253	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C254	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C255	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C256	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
		< CONNECTOR >			
* CN200	1-766-311-21	PIN, CONNECTOR (PC BOARD) 2P			
CN201	1-816-467-11	CONNECTOR, FFC/FPC (SMD.ZIF) 51P			
CN202	1-816-485-21	CONNECTOR, FFC/FPC (ZIF) 50P			
		< DIODE >			
D200	8-719-977-12	DIODE DTZ6.8B			
D201	8-719-080-04	LED CL-190UB-X-T (OFF)			
D202	8-719-080-04	LED CL-190UB-X-T (SOURCE)			
D203	8-719-080-04	LED CL-190UB-X-T (OPEN/CLOSE)			
D204	8-719-080-04	LED CL-190UB-X-T (SCREEN)			
D207	8-719-404-50	DIODE MA111-TX			

Ref. No.	Part No.	Description			Remark
D208	8-719-080-04	LED CL-190UB-X-T (MODE)			
D210	6-500-219-01	DIODE 1SS404(TPH3)			
D211	6-500-219-01	DIODE 1SS404(TPH3)			
D212	8-719-404-50	DIODE MA111-TX			
D213	8-719-977-12	DIODE DTZ6.8B			
D214	6-500-219-01	DIODE 1SS404(TPH3)			
D215	8-719-404-50	DIODE MA111-TX			
D216	8-719-422-29	DIODE MA8047-L-TX			
D217	8-719-404-50	DIODE MA111-TX			
D218	8-719-083-14	LED RRX9000-0501			
D219	8-719-017-79	DIODE MA8033			
		< FERRITE BEAD >			
FB903	1-500-329-21	INDUCTOR, FERRITE BEAD			
		< IC >			
IC200	8-759-337-40	IC NJM2904V(TE2)			
IC201	8-759-234-08	IC TA78L05F			
IC202	8-759-075-70	IC TA75S393F			
IC203	6-702-207-01	IC TK11850L			
IC204	8-759-695-94	IC TAR5S33(TE85R)			
IC205	8-759-075-66	IC TA75S01F			
IC206	8-759-830-18	IC RRX9000-0601#1			
IC207	6-702-206-01	IC LZ9FD51			
IC208	8-759-209-97	IC TC4S81F			
IC209	6-550-169-01	IC TPC8403(TE12L)			
IC210	6-702-208-01	IC BH8100FV			
		< COIL >			
L200	1-428-971-11	COIL, CHOKE 100uH			
L201	1-406-580-11	COIL, CHOKE 100uH			
L202	1-500-284-21	INDUCTOR, FERRITE BEAD			
		< TFT INDICATOR UNIT >			
LCD201	1-477-252-11	INDICATOR UNIT, TFT			
		< TRANSISTOR >			
Q200	8-729-421-22	TRANSISTOR UN2211			
Q201	8-729-421-22	TRANSISTOR UN2211			
Q202	8-729-807-51	TRANSISTOR 2SD1623-S			
Q203	8-729-807-51	TRANSISTOR 2SD1623-S			
Q204	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L			
Q205	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L			
Q206	8-729-901-04	TRANSISTOR DTA114EK			
Q207	8-729-421-22	TRANSISTOR UN2211			
		< RESISTOR >			
R200	1-216-815-11	METAL CHIP	330	5%	1/10W
R201	1-216-834-11	METAL CHIP	12K	5%	1/10W
R202	1-216-833-11	METAL CHIP	10K	5%	1/10W
R203	1-216-841-11	METAL CHIP	47K	5%	1/10W
R204	1-216-833-11	METAL CHIP	10K	5%	1/10W
R205	1-218-867-11	RES-CHIP	6.8K	5%	1/10W
R206	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R207	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R208	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R209	1-216-823-11	METAL CHIP	1.5K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R210	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R211	1-216-821-11	METAL CHIP	1K	5%	1/10W
R212	1-216-819-11	METAL CHIP	680	5%	1/10W
R213	1-216-819-11	METAL CHIP	680	5%	1/10W
R214	1-216-819-11	METAL CHIP	680	5%	1/10W
R216	1-216-845-11	METAL CHIP	100K	5%	1/10W
R217	1-216-807-11	METAL CHIP	68	5%	1/10W
R218	1-216-835-11	METAL CHIP	15K	5%	1/10W
R219	1-216-837-11	METAL CHIP	22K	5%	1/10W
R220	1-216-807-11	METAL CHIP	68	5%	1/10W
R221	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R222	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R224	1-216-035-00	METAL CHIP	270	5%	1/10W
R225	1-216-841-11	METAL CHIP	47K	5%	1/10W
R226	1-216-833-11	METAL CHIP	10K	5%	1/10W
R227	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R228	1-216-811-11	METAL CHIP	150	5%	1/10W
R229	1-216-835-11	METAL CHIP	15K	5%	1/10W
R230	1-216-848-11	METAL CHIP	180K	5%	1/10W
R231	1-216-833-11	METAL CHIP	10K	5%	1/10W
R232	1-216-864-11	METAL CHIP	0	5%	1/10W
R233	1-216-815-11	METAL CHIP	330	5%	1/10W
R234	1-216-821-11	METAL CHIP	1K	5%	1/10W
R236	1-216-833-11	METAL CHIP	10K	5%	1/10W
R237	1-216-845-11	METAL CHIP	100K	5%	1/10W
R238	1-216-851-11	METAL CHIP	330K	5%	1/10W
R239	1-216-845-11	METAL CHIP	100K	5%	1/10W
R240	1-218-867-11	RES-CHIP	6.8K	5%	1/10W
R241	1-218-965-11	RES-CHIP	10K	5%	1/16W
R242	1-218-965-11	RES-CHIP	10K	5%	1/16W
R243	1-216-797-11	METAL CHIP	10	5%	1/10W
R244	1-218-965-11	RES-CHIP	10K	5%	1/16W
R245	1-216-793-11	RES-CHIP	4.7	5%	1/10W
R246	1-216-797-11	METAL CHIP	10	5%	1/10W
R247	1-216-845-11	METAL CHIP	100K	5%	1/10W
R248	1-208-635-11	RES-CHIP	10	5%	1/16W
R249	1-216-833-11	METAL CHIP	10K	5%	1/10W
R250	1-218-867-11	RES-CHIP	6.8K	5%	1/10W
R251	1-216-845-11	METAL CHIP	100K	5%	1/10W
R252	1-216-793-11	RES-CHIP	4.7	5%	1/10W
R253	1-216-835-11	METAL CHIP	15K	5%	1/10W
R254	1-216-845-11	METAL CHIP	100K	5%	1/10W
R255	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R259	1-208-643-11	RES-CHIP	22	5%	1/16W
R260	1-208-635-11	RES-CHIP	10	5%	1/16W
R268	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R269	1-216-864-11	METAL CHIP	0	5%	1/10W
R270	1-216-864-11	METAL CHIP	0	5%	1/10W
R271	1-216-864-11	METAL CHIP	0	5%	1/10W
R272	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R273	1-218-935-11	RES-CHIP	33	5%	1/16W
R274	1-218-935-11	RES-CHIP	33	5%	1/16W
R275	1-218-935-11	RES-CHIP	33	5%	1/16W
R276	1-218-935-11	RES-CHIP	33	5%	1/16W
R277	1-218-935-11	RES-CHIP	33	5%	1/16W
R278	1-218-935-11	RES-CHIP	33	5%	1/16W
R279	1-218-935-11	RES-CHIP	33	5%	1/16W
R280	1-218-935-11	RES-CHIP	33	5%	1/16W

DISPLAY MAIN

Ref. No.	Part No.	Description			Remark
R281	1-218-935-11	RES-CHIP	33	5%	1/16W
R282	1-218-935-11	RES-CHIP	33	5%	1/16W
R283	1-218-935-11	RES-CHIP	33	5%	1/16W
R284	1-218-935-11	RES-CHIP	33	5%	1/16W
R285	1-218-935-11	RES-CHIP	33	5%	1/16W
R286	1-218-935-11	RES-CHIP	33	5%	1/16W
R287	1-218-935-11	RES-CHIP	33	5%	1/16W
R288	1-218-935-11	RES-CHIP	33	5%	1/16W
R289	1-218-935-11	RES-CHIP	33	5%	1/16W
R293	1-216-864-11	METAL CHIP	0	5%	1/10W
R296	1-216-864-11	METAL CHIP	0	5%	1/10W
R298	1-216-837-11	METAL CHIP	22K	5%	1/10W
		< NETWORK RESISTOR >			
RA205	1-234-369-21	RES, NETWORK 10X4 (1005)			
RA206	1-234-369-21	RES, NETWORK 10X4 (1005)			
RA207	1-234-369-21	RES, NETWORK 10X4 (1005)			
RA208	1-234-369-21	RES, NETWORK 10X4 (1005)			
RA209	1-234-369-21	RES, NETWORK 10X4 (1005)			
RA210	1-234-369-21	RES, NETWORK 10X4 (1005)			
		< CERMET RESISTOR >			
RV402	1-238-090-11	RES, ADJ, CERMET 10K			
		< SWITCH >			
S200	1-771-884-11	SWITCH, TACTILE (WITH LED) (OFF)			
S201	1-771-884-11	SWITCH, TACTILE (WITH LED) (OPEN/CLOSE)			
S202	1-771-027-21	SWITCH, KEYBOARD (LED NON) (SOURCE)			
S203	1-771-884-11	SWITCH, TACTILE (WITH LED) (MODE)			
S204	1-786-355-21	SWITCH, TACTILE (WITH LED) (VOL +)			
S205	1-786-355-21	SWITCH, TACTILE (WITH LED) (VOL –)			
S206	1-786-355-21	SWITCH, TACTILE (WITH LED) (I◀◀)			
S207	1-786-355-21	SWITCH, TACTILE (WITH LED) (▶▶I)			
S208	1-771-884-11	SWITCH, TACTILE (WITH LED) (SHIFT)			
S209	1-771-884-11	SWITCH, TACTILE (WITH LED) (RESET)			
S210	1-771-027-21	SWITCH, KEYBOARD (LED NON) (SCREEN)			
		< TRANSFORMER >			
T200	1-437-741-11	TRANSFORMER, DC-AC CONVERTER			
		< THERMISTOR >			
TH200	1-810-812-21	THERMISTOR, NTC (1608)			
**********					
	A-3274-377-A	MAIN BOARD, COMPLETE (US,CND)			
	A-3274-380-A	MAIN BOARD, COMPLETE (AEP,UK,E)			
		**********			
	3-241-854-01	BRACKET (REG)			
	3-241-855-01	BRACKET (FAN)			
	3-241-861-11	CHASSIS (BACK)			
	3-241-862-01	CASE (TUX-A), SHIELD (AEP,UK,E)			
	7-685-792-09	SCREW +PTT 2.6X6 (S)			
	7-685-797-09	SCREW +PTT 2.6X16 (S)			
		< BUZZER >			
BZ901	1-544-886-11	BUZZER			

Ref. No.	Part No.	Description			Remark
		< CAPACITOR >			
C101	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C102	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C103	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C104	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C105	1-124-233-11	ELECT	10uF	20%	16V
C106	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C107	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C108	1-124-233-11	ELECT	10uF	20%	16V
C109	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C110	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C121	1-124-589-11	ELECT	47uF	20%	16V (AEP,UK,E)
C122	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK,E)
C123	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (AEP,UK,E)
C124	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (AEP,UK,E)
C125	1-162-924-11	CERAMIC CHIP	56PF	5%	50V (AEP,UK,E)
C126	1-162-959-11	CERAMIC CHIP	330PF	5%	50V (AEP,UK,E)
C127	1-162-924-11	CERAMIC CHIP	56PF	5%	50V (AEP,UK,E)
C128	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V (AEP,UK,E)
C130	1-164-739-11	CERAMIC CHIP	560PF	5%	50V (AEP,UK,E)
C141	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK,E)
C142	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK,E)
C143	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK,E)
C144	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (AEP,UK,E)
C145	1-164-315-11	CERAMIC CHIP	470PF	5%	50V (AEP,UK,E)
C146	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (AEP,UK,E)
C147	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V (AEP,UK,E)
C148	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V (AEP,UK,E)
C149	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V (AEP,UK,E)
C150	1-126-160-11	ELECT	1uF	20%	50V
C201	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C202	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C203	1-135-346-21	ELECT	39uF	20%	16V
C204	1-124-584-00	ELECT	100uF	20%	10V
C205	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C206	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C207	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C208	1-124-584-00	ELECT	100uF	20%	10V
C209	1-124-233-11	ELECT	10uF	20%	16V
C210	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C211	1-124-233-11	ELECT	10uF	20%	16V
C212	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remark
C213	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C214	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C215	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C216	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C217	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C218	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C301	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C302	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C303	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C304	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C305	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C306	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C307	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C308	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C309	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C310	1-107-862-11	TANTAL. CHIP	1uF	20%	16V
C311	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C312	1-107-862-11	TANTAL. CHIP	1uF	20%	16V
C315	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C316	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C317	1-119-778-35	ELECT	100uF	20%	10V
C318	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C319	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C322	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C323	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C324	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C325	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C326	1-119-824-35	ELECT	10uF	20%	50V
C327	1-136-153-00	FILM	0.01uF	5%	50V
C328	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C329	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C330	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C331	1-136-153-00	FILM	0.01uF	5%	50V
C332	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C335	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C337	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C338	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C339	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C340	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C353	1-124-233-11	ELECT	10uF	20%	16V
C354	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C355	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C356	1-124-233-11	ELECT	10uF	20%	16V
C357	1-126-160-11	ELECT	1uF	20%	50V
C358	1-126-160-11	ELECT	1uF	20%	50V
C359	1-126-160-11	ELECT	1uF	20%	50V
C360	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C361	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C362	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C363	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C364	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C366	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C367	1-124-589-11	ELECT	47uF	20%	16V
C369	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C370	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C371	1-127-820-11	CERAMIC CHIP	4.7uF		16V
C372	1-127-820-11	CERAMIC CHIP	4.7uF		16V
C373	1-127-820-11	CERAMIC CHIP	4.7uF		16V
C374	1-127-820-11	CERAMIC CHIP	4.7uF		16V
C398	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C399	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C400	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C401	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C402	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C403	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C404	1-124-259-11	ELECT	4.7uF	20%	35V
C406	1-135-696-11	ELECT	4700uF		16V
C407	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C408	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C409	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C411	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C461	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C462	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C463	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C464	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C465	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C466	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C467	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C468	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C501	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C502	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V (AEP,UK,E)
C502	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V (US,CND)
C503	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C504	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C506	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C507	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C508	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C509	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C510	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C511	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C512	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C513	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C514	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C515	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C516	1-124-584-00	ELECT	100uF	20%	10V
C517	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C518	1-164-160-11	CERAMIC CHIP	20PF	5%	50V
C519	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C521	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C522	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C523	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C524	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C601	1-126-934-11	ELECT	220uF	20%	16V
C603	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C701	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C702	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C703	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C704	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C705	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C706	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C707	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C708	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C710	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C712	1-124-589-11	ELECT	47uF	20%	16V

MAIN

Ref. No.	Part No.	Description			Remark
C713	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C714	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C715	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C716	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C801	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C802	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C803	1-135-346-21	ELECT	39uF	20%	16V
C804	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C805	1-135-346-21	ELECT	39uF	20%	16V
C806	1-126-204-11	ELECT CHIP	47uF	20%	16V
C808	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C809	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C811	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C813	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C814	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C815	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C817	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C818	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C819	1-135-346-21	ELECT	39uF	20%	16V
C820	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C821	1-135-346-21	ELECT	39uF	20%	16V
C822	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C823	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C824	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C825	1-135-346-21	ELECT	39uF	20%	16V
C826	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C827	1-115-156-11	CERAMIC CHIP	1uF		10V
C828	1-126-204-11	ELECT CHIP	47uF	20%	16V
C829	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C830	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C832	1-135-346-21	ELECT	39uF	20%	16V
C833	1-115-156-11	CERAMIC CHIP	1uF		10V
C834	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C835	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C836	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C837	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C838	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C840	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C841	1-135-346-21	ELECT	39uF	20%	16V
C842	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C843	1-135-346-21	ELECT	39uF	20%	16V
C846	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C847	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C851	1-125-701-11	DOUBLE LAYERS	0.047F		5.5V
C852	1-126-916-11	ELECT	1000uF	20%	6.3V
C853	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C861	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C862	1-126-176-11	ELECT	220uF	20%	10V
C863	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C864	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C871	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C872	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C873	1-124-233-11	ELECT	10uF	20%	16V
C901	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C902	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C903	1-115-156-11	CERAMIC CHIP	1uF		10V
C904	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C913	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C914	1-115-156-11	CERAMIC CHIP	1uF		10V
C915	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C916	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C917	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C919	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< JACK >			
CN101	1-793-598-11	JACK (ANTENNA)			
CN301	1-816-481-11	JACK, PIN 4P (BUS AUDIO IN/AUX IN, SUB OUT (MONO))			
		< CONNECTOR >			
CN201	1-794-695-11	CONNECTOR, FFC/FPC 30P			
CN302	1-566-760-11	PIN, CONNECTOR (PC BOARD) 5P			
CN303	1-566-760-11	PIN, CONNECTOR (PC BOARD) 5P			
CN401	1-793-277-11	PLUG, CONNECTOR 16P			
CN402	1-770-359-11	PIN, CONNECTOR (PC BOARD) 2P			
* CN451	1-566-761-11	PIN, CONNECTOR (PC BOARD) 6P			
CN601	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)			
CN701	1-566-760-11	PIN, CONNECTOR (PC BOARD) 5P			
CN901	1-816-486-11	CONNECTOR, BOARD TO BOARD 60P			
* CN902	1-779-056-21	PIN, CONNECTOR (PC BOARD) 5P			
		< DIODE >			
D101	8-719-404-50	DIODE	MA111-TX		
D102	8-719-422-41	DIODE	MA8051-L-TX		
D141	8-719-800-76	DIODE	1SS226 (AEP,UK,E)		
D142	8-719-422-41	DIODE	MA8051-L-TX (AEP,UK,E)		
D201	8-719-421-24	DIODE	MA8039-H		
D202	8-719-422-31	DIODE	MA8047-M		
D351	8-719-017-58	DIODE	MA8068		
D362	8-719-023-25	DIODE	MA704WK		
D363	8-719-421-27	DIODE	MA728		
D366	8-719-404-50	DIODE	MA111-TX		
D401	8-719-053-18	DIODE	1SR154-400TE-25		
D402	8-719-053-18	DIODE	1SR154-400TE-25		
D405	8-719-017-58	DIODE	MA8068		
D406	8-719-404-50	DIODE	MA111-TX		
D407	8-719-049-38	DIODE	1N5404TU		
D461	8-719-420-90	DIODE	MA8051-M		
D501	8-719-420-90	DIODE	MA8051-M		
D502	8-719-421-27	DIODE	MA728		
D503	8-719-404-50	DIODE	MA111-TX		
D504	8-719-404-50	DIODE	MA111-TX		
D505	8-719-404-50	DIODE	MA111-TX		
D506	8-719-404-50	DIODE	MA111-TX		
D507	8-719-045-77	DIODE	MA704WA-TX		
D508	8-719-422-41	DIODE	MA8051-L-TX		
D509	8-719-404-50	DIODE	MA111-TX		
D510	8-719-820-05	DIODE	1SS181		
D511	8-719-820-05	DIODE	1SS181		
D512	8-719-404-50	DIODE	MA111-TX		
D513	8-719-404-50	DIODE	MA111-TX		
D514	8-719-404-50	DIODE	MA111-TX		
D602	8-719-017-94	DIODE	MA8180		
D603	8-719-422-64	DIODE	MA8062-M		
D604	8-719-017-94	DIODE	MA8180		
D605	8-719-420-51	DIODE	MA729		
D606	8-719-017-94	DIODE	MA8180		

Ref. No.	Part No.	Description	Remark
D607	8-719-801-78	DIODE 1SS184	
D608	8-719-421-24	DIODE MA8039-H	
D701	8-719-820-05	DIODE 1SS181	
D702	8-719-820-05	DIODE 1SS181	
D703	8-719-801-78	DIODE 1SS184	
D801	8-719-074-47	DIODE CRS02(TE85L)	
D802	8-719-074-47	DIODE CRS02(TE85L)	
D803	8-719-074-47	DIODE CRS02(TE85L)	
D804	8-719-074-47	DIODE CRS02(TE85L)	
D851	8-719-060-81	DIODE MA735-TX	
D852	8-719-422-62	DIODE MA8062-L-TX	
D861	8-719-423-07	DIODE MA8100-L-TX	
D862	8-719-801-78	DIODE 1SS184	
D902	8-719-404-50	DIODE MA111-TX	
D911	8-719-820-05	DIODE 1SS181	
D912	8-719-421-27	DIODE MA728	
		< DC FAN >	
FAN691	1-763-815-11	FAN, DC (25X25)	
		< JUMPER RESISTOR >	
FB201	1-216-864-11	METAL CHIP 0 5%	1/10W
FB901	1-216-864-11	METAL CHIP 0 5%	1/10W
		< IC >	
IC101	8-759-492-59	IC SAA6588T-118 (AEP,UK,E)	
IC102	8-759-278-58	IC NJM4558V-TE2 (AEP,UK,E)	
IC201	8-759-523-81	IC TC74VHC08FT(EL)	
IC202	8-759-695-94	IC TAR5S33(TE85R)	
IC301	8-759-827-13	IC TDA7406T	
IC302	8-759-422-21	IC NJM4580V(TE2)	
IC303	8-759-422-21	IC NJM4580V(TE2)	
IC304	8-759-422-21	IC NJM4580V(TE2)	
IC307	8-759-234-08	IC TA78L05F	
IC309	8-759-530-28	IC TC4066BFT(EL,N)	
IC310	8-759-422-21	IC NJM4580V(TE2)	
IC501	6-801-592-01	IC MB90F574APMT-G-MS100 (US,CND)	
IC501	6-801-608-01	IC MB90F574APMT-G-MS101 (AEP,UK,E)	
IC502	8-759-828-22	IC XC61CN4102MR	
IC601	8-759-449-89	IC BA8270F-E2	
IC701	8-759-337-40	IC NJM2904V(TE2)	
IC702	8-759-527-33	IC LB1930M-TLM	
IC703	8-759-527-33	IC LB1930M-TLM	
IC704	8-759-668-14	IC PQ09DZ1U	
IC801	8-759-990-43	IC TL1451ACDB	
IC802	8-759-990-43	IC TL1451ACDB	
IC901	8-759-830-17	IC RRX9000-0401R#01	
IC913	8-759-679-36	IC TC7WT125FU(TE12R)	
IC914	8-759-560-62	IC TC7WH32FU(TE12R)	
IC915	8-759-566-06	IC TC7WH08FU(TE12R)	
IC916	8-759-523-95	IC TC74VHC74FT(EL)	
IC918	8-759-277-63	IC TC7W14FU(TE12R)	
		< COIL >	
L101	1-216-295-11	SHORT CHIP 0	
L401	1-411-670-31	COIL, CHOKE 400uH	
L501	1-414-185-51	INDUCTOR 22uH	

Ref. No.	Part No.	Description	Remark
L801	1-428-979-21	COIL, CHOKE 22uH	
L802	1-428-980-21	COIL, CHOKE 68uH	
L803	1-428-981-41	COIL, CHOKE 1.8uH	
L804	1-428-979-21	COIL, CHOKE 22uH	
L805	1-428-978-21	COIL, CHOKE 15uH	
L806	1-416-734-21	COIL, CHOKE 27uH	
L807	1-428-981-41	COIL, CHOKE 1.8uH	
L808	1-428-981-41	COIL, CHOKE 1.8uH	
L809	1-416-734-21	COIL, CHOKE 27uH	
L810	1-428-981-41	COIL, CHOKE 1.8uH	
		< TRANSISTOR >	
Q101	8-729-920-85	TRANSISTOR 2SD1664-QR	
Q141	8-729-120-28	TRANSISTOR 2SC1623-L5L6 (AEP,UK,E)	
Q142	8-729-421-22	TRANSISTOR UN2211 (AEP,UK,E)	
Q201	8-729-022-51	TRANSISTOR XN1A311-TX	
Q202	8-729-920-85	TRANSISTOR 2SD1664-QR	
Q203	8-729-920-85	TRANSISTOR 2SD1664-QR	
Q204	8-729-424-18	TRANSISTOR UN2113	
Q205	8-729-424-18	TRANSISTOR UN2113	
Q206	8-729-421-19	TRANSISTOR UN2213	
Q207	8-729-421-19	TRANSISTOR UN2213	
Q351	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q352	8-729-053-84	FET SSM3K09FU(T5LSONY1)	
Q363	8-729-421-19	TRANSISTOR UN2213	
Q364	8-729-424-18	TRANSISTOR UN2113	
Q401	8-729-049-13	FET UPA1853GR-9JG-E1	
Q402	8-729-424-59	TRANSISTOR UN2212	
Q403	8-729-424-59	TRANSISTOR UN2212	
Q404	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q405	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q406	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q451	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q452	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q453	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q454	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q501	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q502	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q503	8-729-106-60	TRANSISTOR 2SB1115A	
Q504	8-729-424-08	TRANSISTOR UN2111	
Q506	8-729-421-19	TRANSISTOR UN2213	
Q602	8-729-421-22	TRANSISTOR UN2211	
Q603	8-729-424-18	TRANSISTOR UN2113	
Q604	8-729-421-22	TRANSISTOR UN2211	
Q801	8-729-822-84	TRANSISTOR 2SB1202FAST	
Q802	8-729-425-25	TRANSISTOR XN4604-TX	
Q803	8-729-421-19	TRANSISTOR UN2213	
Q804	8-729-424-18	TRANSISTOR UN2113	
Q805	8-729-425-25	TRANSISTOR XN4604-TX	
Q806	8-729-822-84	TRANSISTOR 2SB1202FAST	
Q807	8-729-421-19	TRANSISTOR UN2213	
Q808	8-729-421-19	TRANSISTOR UN2213	
Q809	8-729-421-19	TRANSISTOR UN2213	
Q810	8-729-822-84	TRANSISTOR 2SB1202FAST	
Q811	8-729-424-18	TRANSISTOR UN2113	
Q812	8-729-425-25	TRANSISTOR XN4604-TX	
Q813	8-729-425-25	TRANSISTOR XN4604-TX	
Q814	8-729-822-84	TRANSISTOR 2SB1202FAST	

MAIN

Ref. No.	Part No.	Description			Remark
Q815	8-729-421-19	TRANSISTOR	UN2213		
Q851	8-729-040-17	TRANSISTOR	2SD2164-K		
Q861	8-729-424-59	TRANSISTOR	UN2212		
Q862	8-729-106-60	TRANSISTOR	2SB1115A		
Q863	8-729-424-59	TRANSISTOR	UN2212		
Q864	8-729-106-60	TRANSISTOR	2SB1115A		
Q865	8-729-019-00	TRANSISTOR	2SD2394-G		
Q866	8-729-424-18	TRANSISTOR	UN2113		
Q867	8-729-421-19	TRANSISTOR	UN2213		
Q871	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q872	8-729-822-84	TRANSISTOR	2SB1202FAST		
Q873	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q901	8-729-421-22	TRANSISTOR	UN2211		
Q911	8-729-421-22	TRANSISTOR	UN2211		
Q912	8-729-421-22	TRANSISTOR	UN2211		
Q913	8-729-421-22	TRANSISTOR	UN2211		
Q914	8-729-421-19	TRANSISTOR	UN2213		
		< RESISTOR >			
R101	1-216-813-11	METAL CHIP	220	5%	1/10W
R102	1-216-813-11	METAL CHIP	220	5%	1/10W
R103	1-216-864-11	METAL CHIP	0	5%	1/10W
R104	1-216-001-00	METAL CHIP	10	5%	1/10W
R105	1-216-817-11	METAL CHIP	470	5%	1/10W
R121	1-216-864-11	METAL CHIP	0	5%	1/10W (AEP,UK,E)
R122	1-216-817-11	METAL CHIP	470	5%	1/10W (AEP,UK,E)
R123	1-216-797-11	METAL CHIP	10	5%	1/10W (AEP,UK,E)
R124	1-216-797-11	METAL CHIP	10	5%	1/10W (AEP,UK,E)
R125	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (AEP,UK,E)
R141	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (AEP,UK,E)
R142	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (AEP,UK,E)
R143	1-216-833-11	METAL CHIP	10K	5%	1/10W (AEP,UK,E)
R144	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (AEP,UK,E)
R145	1-216-833-11	METAL CHIP	10K	5%	1/10W (AEP,UK,E)
R146	1-216-809-11	METAL CHIP	100	5%	1/10W (AEP,UK,E)
R147	1-216-845-11	METAL CHIP	100K	5%	1/10W (AEP,UK,E)
R148	1-216-809-11	METAL CHIP	100	5%	1/10W (AEP,UK,E)
R149	1-216-857-11	METAL CHIP	1M	5%	1/10W (AEP,UK,E)
R201	1-216-295-11	SHORT CHIP	0		
R202	1-216-295-11	SHORT CHIP	0		
R203	1-216-295-11	SHORT CHIP	0		
R204	1-216-819-11	METAL CHIP	680	5%	1/10W
R205	1-216-864-11	METAL CHIP	0	5%	1/10W
R206	1-216-821-11	METAL CHIP	1K	5%	1/10W
R208	1-216-841-11	METAL CHIP	47K	5%	1/10W
R212	1-216-864-11	METAL CHIP	0	5%	1/10W
R213	1-216-864-11	METAL CHIP	0	5%	1/10W
R214	1-216-864-11	METAL CHIP	0	5%	1/10W
R215	1-216-821-11	METAL CHIP	1K	5%	1/10W
R216	1-216-864-11	METAL CHIP	0	5%	1/10W
R217	1-216-864-11	METAL CHIP	0	5%	1/10W
R218	1-216-864-11	METAL CHIP	0	5%	1/10W
R301	1-218-867-11	RES-CHIP	6.8K	5%	1/10W
R302	1-216-841-11	METAL CHIP	47K	5%	1/10W
R303	1-216-845-11	METAL CHIP	100K	5%	1/10W
R304	1-216-864-11	METAL CHIP	0	5%	1/10W
R305	1-216-864-11	METAL CHIP	0	5%	1/10W
R306	1-216-841-11	METAL CHIP	47K	5%	1/10W
R307	1-216-864-11	METAL CHIP	0	5%	1/10W (US,CND)
R308	1-216-813-11	METAL CHIP	220	5%	1/10W
R309	1-216-813-11	METAL CHIP	220	5%	1/10W
R310	1-216-809-11	METAL CHIP	100	5%	1/10W
R311	1-216-809-11	METAL CHIP	100	5%	1/10W
R312	1-216-809-11	METAL CHIP	100	5%	1/10W
R313	1-216-809-11	METAL CHIP	100	5%	1/10W
R314	1-216-809-11	METAL CHIP	100	5%	1/10W
R317	1-216-864-11	METAL CHIP	0	5%	1/10W
R318	1-216-864-11	METAL CHIP	0	5%	1/10W
R319	1-216-864-11	METAL CHIP	0	5%	1/10W
R321	1-216-833-11	METAL CHIP	10K	5%	1/10W
R322	1-216-833-11	METAL CHIP	10K	5%	1/10W
R323	1-216-833-11	METAL CHIP	10K	5%	1/10W
R324	1-216-864-11	METAL CHIP	0	5%	1/10W
R325	1-216-835-11	METAL CHIP	15K	5%	1/10W
R326	1-216-864-11	METAL CHIP	0	5%	1/10W
R328	1-216-833-11	METAL CHIP	10K	5%	1/10W
R329	1-216-833-11	METAL CHIP	10K	5%	1/10W
R330	1-216-833-11	METAL CHIP	10K	5%	1/10W
R331	1-216-864-11	METAL CHIP	0	5%	1/10W
R332	1-216-835-11	METAL CHIP	15K	5%	1/10W
R336	1-216-835-11	METAL CHIP	15K	5%	1/10W
R337	1-216-833-11	METAL CHIP	10K	5%	1/10W
R338	1-216-835-11	METAL CHIP	15K	5%	1/10W
R339	1-216-833-11	METAL CHIP	10K	5%	1/10W
R349	1-216-295-11	SHORT CHIP	0		
R350	1-216-864-11	METAL CHIP	0	5%	1/10W
R351	1-216-809-11	METAL CHIP	100	5%	1/10W
R352	1-216-841-11	METAL CHIP	47K	5%	1/10W
R353	1-216-833-11	METAL CHIP	10K	5%	1/10W
R354	1-216-833-11	METAL CHIP	10K	5%	1/10W
R356	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R357	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R358	1-216-809-11	METAL CHIP	100	5%	1/10W
R359	1-216-809-11	METAL CHIP	100	5%	1/10W
R366	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R368	1-216-805-11	METAL CHIP	47	5%	1/10W
R369	1-216-864-11	METAL CHIP	0	5%	1/10W
R377	1-216-845-11	METAL CHIP	100K	5%	1/10W
R378	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R379	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R380	1-216-845-11	METAL CHIP	100K	5%	1/10W
R381	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R382	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R384	1-216-864-11	METAL CHIP	0	5%	1/10W
R385	1-216-864-11	METAL CHIP	0	5%	1/10W
R401	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R402	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R403	1-216-833-11	METAL CHIP	10K	5%	1/10W
R404	1-216-837-11	METAL CHIP	22K	5%	1/10W
R405	1-216-845-11	METAL CHIP	100K	5%	1/10W
R406	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R407	1-216-833-11	METAL CHIP	10K	5%	1/10W
R408	1-216-833-11	METAL CHIP	10K	5%	1/10W
R409	1-216-833-11	METAL CHIP	10K	5%	1/10W
R410	1-216-821-11	METAL CHIP	1K	5%	1/10W
R411	1-216-841-11	METAL CHIP	47K	5%	1/10W
R412	1-216-073-00	RES-CHIP	10K	5%	1/10W
R413	1-216-073-00	RES-CHIP	10K	5%	1/10W
R414	1-216-073-00	RES-CHIP	10K	5%	1/10W
R415	1-216-073-00	RES-CHIP	10K	5%	1/10W
R416	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R417	1-216-073-00	RES-CHIP	10K	5%	1/10W
R418	1-216-073-00	RES-CHIP	10K	5%	1/10W
R419	1-216-841-11	METAL CHIP	47K	5%	1/10W
R420	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R421	1-216-841-11	METAL CHIP	47K	5%	1/10W
R451	1-216-809-11	METAL CHIP	100	5%	1/10W
R452	1-216-809-11	METAL CHIP	100	5%	1/10W
R453	1-216-809-11	METAL CHIP	100	5%	1/10W
R454	1-216-809-11	METAL CHIP	100	5%	1/10W
R455	1-216-841-11	METAL CHIP	47K	5%	1/10W
R456	1-216-841-11	METAL CHIP	47K	5%	1/10W
R457	1-216-841-11	METAL CHIP	47K	5%	1/10W
R458	1-216-841-11	METAL CHIP	47K	5%	1/10W
R501	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R502	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R503	1-216-819-11	METAL CHIP	680	5%	1/10W
R504	1-216-821-11	METAL CHIP	1K	5%	1/10W
R505	1-218-690-11	METAL CHIP	820	0.5%	1/16W
R506	1-218-732-11	METAL CHIP	47K	0.5%	1/16W
R507	1-216-833-11	METAL CHIP	10K	5%	1/10W
R508	1-216-841-11	METAL CHIP	47K	5%	1/10W
R509	1-216-841-11	METAL CHIP	47K	5%	1/10W
R511	1-216-821-11	METAL CHIP	1K	5%	1/10W
R512	1-216-864-11	METAL CHIP	0	5%	1/10W
R513	1-216-821-11	METAL CHIP	1K	5%	1/10W
R514	1-216-821-11	METAL CHIP	1K	5%	1/10W
R515	1-216-864-11	METAL CHIP	0	5%	1/10W
R517	1-216-821-11	METAL CHIP	1K	5%	1/10W
R518	1-216-864-11	METAL CHIP	0	5%	1/10W
R520	1-216-837-11	METAL CHIP	22K	5%	1/10W
R522	1-216-864-11	METAL CHIP	0	5%	1/10W
R523	1-216-864-11	METAL CHIP	0	5%	1/10W
R524	1-216-845-11	METAL CHIP	100K	5%	1/10W
R525	1-216-845-11	METAL CHIP	100K	5%	1/10W
R526	1-216-845-11	METAL CHIP	100K	5%	1/10W
R527	1-216-845-11	METAL CHIP	100K	5%	1/10W
R528	1-216-833-11	METAL CHIP	10K	5%	1/10W
R529	1-216-833-11	METAL CHIP	10K	5%	1/10W
R530	1-216-845-11	METAL CHIP	100K	5%	1/10W
R531	1-216-821-11	METAL CHIP	1K	5%	1/10W
R532	1-216-821-11	METAL CHIP	1K	5%	1/10W
R533	1-216-864-11	METAL CHIP	0	5%	1/10W
R534	1-216-815-11	METAL CHIP	330	5%	1/10W
R535	1-216-821-11	METAL CHIP	1K	5%	1/10W
R536	1-216-821-11	METAL CHIP	1K	5%	1/10W
R537	1-216-841-11	METAL CHIP	47K	5%	1/10W
R538	1-216-821-11	METAL CHIP	1K	5%	1/10W
R539	1-216-864-11	METAL CHIP	0	5%	1/10W
R540	1-216-821-11	METAL CHIP	1K	5%	1/10W
R541	1-216-845-11	METAL CHIP	100K	5%	1/10W
R542	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R543	1-216-813-11	METAL CHIP	220	5%	1/10W
R544	1-216-864-11	METAL CHIP	0	5%	1/10W
R545	1-216-821-11	METAL CHIP	1K	5%	1/10W
R546	1-216-864-11	METAL CHIP	0	5%	1/10W
R547	1-216-841-11	METAL CHIP	47K	5%	1/10W
R550	1-218-867-11	RES-CHIP	6.8K	5%	1/10W
R551	1-216-864-11	METAL CHIP	0	5%	1/10W
R552	1-216-864-11	METAL CHIP	0	5%	1/10W
R553	1-216-864-11	METAL CHIP	0	5%	1/10W
R554	1-216-864-11	METAL CHIP	0	5%	1/10W
R555	1-216-864-11	METAL CHIP	0	5%	1/10W
R556	1-216-864-11	METAL CHIP	0	5%	1/10W
R557	1-216-845-11	METAL CHIP	100K	5%	1/10W
R559	1-216-864-11	METAL CHIP	0	5%	1/10W
R560	1-216-864-11	METAL CHIP	0	5%	1/10W
R561	1-216-864-11	METAL CHIP	0	5%	1/10W
R562	1-216-864-11	METAL CHIP	0	5%	1/10W
R563	1-216-864-11	METAL CHIP	0	5%	1/10W
R564	1-216-864-11	METAL CHIP	0	5%	1/10W
R565	1-216-864-11	METAL CHIP	0	5%	1/10W
R566	1-216-845-11	METAL CHIP	100K	5%	1/10W
R570	1-216-845-11	METAL CHIP	100K	5%	1/10W
R571	1-216-845-11	METAL CHIP	100K	5%	1/10W
R572	1-216-845-11	METAL CHIP	100K	5%	1/10W
R573	1-216-849-11	METAL CHIP	220K	5%	1/10W
R574	1-216-849-11	METAL CHIP	220K	5%	1/10W
R575	1-216-845-11	METAL CHIP	100K	5%	1/10W
R576	1-216-853-11	METAL CHIP	470K	5%	1/10W
R577	1-216-845-11	METAL CHIP	100K	5%	1/10W
R580	1-216-845-11	METAL CHIP	100K	5%	1/10W
R581	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R582	1-216-845-11	METAL CHIP	100K	5%	1/10W
R583	1-216-845-11	METAL CHIP	100K	5%	1/10W
R586	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R587	1-216-864-11	METAL CHIP	0	5%	1/10W
R588	1-216-845-11	METAL CHIP	100K	5%	1/10W
R589	1-216-864-11	METAL CHIP	0	5%	1/10W
R590	1-216-845-11	METAL CHIP	100K	5%	1/10W
R591	1-216-845-11	METAL CHIP	100K	5%	1/10W
R592	1-216-864-11	METAL CHIP	0	5%	1/10W
R593	1-216-864-11	METAL CHIP	0	5%	1/10W
R594	1-216-821-11	METAL CHIP	1K	5%	1/10W
R595	1-216-864-11	METAL CHIP	0	5%	1/10W
R596	1-216-845-11	METAL CHIP	100K	5%	1/10W
R597	1-216-809-11	METAL CHIP	100	5%	1/10W
R598	1-216-845-11	METAL CHIP	100K	5%	1/10W
R601	1-216-841-11	METAL CHIP	47K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R602	1-216-809-11	METAL CHIP	100	5%	1/10W
R603	1-216-809-11	METAL CHIP	100	5%	1/10W
R604	1-216-835-11	METAL CHIP	15K	5%	1/10W
R605	1-216-821-11	METAL CHIP	1K	5%	1/10W
R701	1-216-864-11	METAL CHIP	0	5%	1/10W
R702	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R703	1-216-864-11	METAL CHIP	0	5%	1/10W
R704	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R705	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R706	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R707	1-216-845-11	METAL CHIP	100K	5%	1/10W
R708	1-216-845-11	METAL CHIP	100K	5%	1/10W
R709	1-216-833-11	METAL CHIP	10K	5%	1/10W
R710	1-216-833-11	METAL CHIP	10K	5%	1/10W
R711	1-218-236-11	RES-CHIP	1	10%	1/4W
R712	1-218-236-11	RES-CHIP	1	10%	1/4W
R714	1-218-236-11	RES-CHIP	1	10%	1/4W
R715	1-218-236-11	RES-CHIP	1	10%	1/4W
R801	1-218-720-11	METAL CHIP	15K	0.5%	1/16W
R802	1-216-821-11	METAL CHIP	1K	5%	1/10W
R803	1-216-841-11	METAL CHIP	47K	5%	1/10W
R804	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R805	1-216-841-11	METAL CHIP	47K	5%	1/10W
R806	1-216-821-11	METAL CHIP	1K	5%	1/10W
R807	1-216-809-11	METAL CHIP	100	5%	1/10W
R808	1-218-738-11	METAL CHIP	82K	0.5%	1/16W
R809	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R810	1-216-864-11	METAL CHIP	0	5%	1/10W
R811	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R812	1-216-841-11	METAL CHIP	47K	5%	1/10W
R813	1-216-864-11	METAL CHIP	0	5%	1/10W
R814	1-218-718-11	METAL CHIP	12K	0.5%	1/16W
R815	1-216-809-11	METAL CHIP	100	5%	1/10W
R816	1-218-722-11	METAL CHIP	18K	0.5%	1/16W
R817	1-218-702-11	METAL CHIP	2.7K	0.5%	1/16W
R818	1-218-742-11	METAL CHIP	120K	0.5%	1/16W
R819	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R820	1-216-809-11	METAL CHIP	100	5%	1/10W
R822	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R823	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R824	1-218-720-11	METAL CHIP	15K	0.5%	1/16W
R825	1-218-720-11	METAL CHIP	15K	0.5%	1/16W
R826	1-218-738-11	METAL CHIP	82K	0.5%	1/16W
R827	1-216-841-11	METAL CHIP	47K	5%	1/10W
R828	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R829	1-216-864-11	METAL CHIP	0	5%	1/10W
R830	1-216-841-11	METAL CHIP	47K	5%	1/10W
R831	1-216-841-11	METAL CHIP	47K	5%	1/10W
R832	1-216-841-11	METAL CHIP	47K	5%	1/10W
R833	1-216-841-11	METAL CHIP	47K	5%	1/10W
R834	1-216-841-11	METAL CHIP	47K	5%	1/10W
R835	1-216-841-11	METAL CHIP	47K	5%	1/10W
R836	1-216-821-11	METAL CHIP	1K	5%	1/10W
R837	1-216-841-11	METAL CHIP	47K	5%	1/10W
R838	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R839	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R840	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R841	1-216-841-11	METAL CHIP	47K	5%	1/10W
R842	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R843	1-216-809-11	METAL CHIP	100	5%	1/10W
R844	1-216-864-11	METAL CHIP	0	5%	1/10W
R845	1-218-738-11	METAL CHIP	82K	0.5%	1/16W
R846	1-218-720-11	METAL CHIP	15K	0.5%	1/16W
R847	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R848	1-216-864-11	METAL CHIP	0	5%	1/10W
R849	1-218-720-11	METAL CHIP	15K	0.5%	1/16W
R851	1-216-835-11	METAL CHIP	15K	5%	1/10W
R861	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R862	1-216-845-11	METAL CHIP	100K	5%	1/10W
R863	1-216-845-11	METAL CHIP	100K	5%	1/10W
R864	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R865	1-216-845-11	METAL CHIP	100K	5%	1/10W
R866	1-216-295-11	SHORT CHIP	0		
R867	1-216-041-00	METAL CHIP	470	5%	1/10W
R868	1-216-041-00	METAL CHIP	470	5%	1/10W
R871	1-216-821-11	METAL CHIP	1K	5%	1/10W
R872	1-216-833-11	METAL CHIP	10K	5%	1/10W
R873	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R874	1-216-821-11	METAL CHIP	1K	5%	1/10W
R875	1-216-821-11	METAL CHIP	1K	5%	1/10W
R876	1-216-821-11	METAL CHIP	1K	5%	1/10W
R877	1-216-295-11	SHORT CHIP	0		
R901	1-216-821-11	METAL CHIP	1K	5%	1/10W
R902	1-216-857-11	METAL CHIP	1M	5%	1/10W
R903	1-216-817-11	METAL CHIP	470	5%	1/10W
R904	1-216-845-11	METAL CHIP	100K	5%	1/10W
R905	1-216-845-11	METAL CHIP	100K	5%	1/10W
R906	1-216-845-11	METAL CHIP	100K	5%	1/10W
R907	1-216-845-11	METAL CHIP	100K	5%	1/10W
R908	1-216-845-11	METAL CHIP	100K	5%	1/10W
R909	1-216-841-11	METAL CHIP	47K	5%	1/10W
R910	1-216-821-11	METAL CHIP	1K	5%	1/10W
R911	1-216-864-11	METAL CHIP	0	5%	1/10W
R914	1-216-864-11	METAL CHIP	0	5%	1/10W
R915	1-216-845-11	METAL CHIP	100K	5%	1/10W
R916	1-216-864-11	METAL CHIP	0	5%	1/10W
R917	1-216-864-11	METAL CHIP	0	5%	1/10W
R918	1-216-864-11	METAL CHIP	0	5%	1/10W
R919	1-216-864-11	METAL CHIP	0	5%	1/10W
R920	1-216-864-11	METAL CHIP	0	5%	1/10W
R921	1-216-864-11	METAL CHIP	0	5%	1/10W
R922	1-216-864-11	METAL CHIP	0	5%	1/10W
R923	1-216-864-11	METAL CHIP	0	5%	1/10W
R924	1-216-864-11	METAL CHIP	0	5%	1/10W
R925	1-216-864-11	METAL CHIP	0	5%	1/10W
R926	1-216-864-11	METAL CHIP	0	5%	1/10W
R935	1-216-833-11	METAL CHIP	10K	5%	1/10W
R938	1-216-845-11	METAL CHIP	100K	5%	1/10W
R939	1-216-821-11	METAL CHIP	1K	5%	1/10W
R940	1-216-821-11	METAL CHIP	1K	5%	1/10W
R941	1-216-845-11	METAL CHIP	100K	5%	1/10W
R945	1-216-841-11	METAL CHIP	47K	5%	1/10W
R946	1-216-864-11	METAL CHIP	0	5%	1/10W
		< THERMISTOR (POSITIVE) >			
TH401	1-810-940-11	THERMISTOR, POSITIVE			

Ref. No.	Part No.	Description			Remark
TH402	1-810-940-11	THERMISTOR, POSITIVE			
TH501	1-810-812-21	THERMISTOR, NTC (1608)			
TH601	1-801-792-21	THERMISTOR, POSITIVE			
		< TUNER >			
TUX101	A-3220-812-A	TUNER UNIT (TUX-020)			
		< VIBRATOR >			
X101	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz) (AEP,UK,E)			
X501	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
X502	1-767-993-31	VIBRATOR, CRYSTAL (3.68MHz)			
X901	1-781-282-11	VIBRATOR, CERAMIC (4MHz)			
**********					
	A-3274-221-A	SERVO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-110-569-21	TANTAL. CHIP	47uF	20%	4V
C2	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3	1-110-569-21	TANTAL. CHIP	47uF	20%	4V
C4	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C6	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C7	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C8	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C9	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C10	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C12	1-110-569-21	TANTAL. CHIP	47uF	20%	4V
C13	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C14	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C15	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C16	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C17	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C19	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C21	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C22	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C23	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C25	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C26	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C27	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C28	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C29	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C30	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C31	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C32	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C34	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C35	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C36	1-104-852-11	TANTAL. CHIP	22uF	20%	6.3V
C37	1-104-852-11	TANTAL. CHIP	22uF	20%	6.3V
C38	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C39	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C40	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C42	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C43	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C45	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C47	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C48	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

Ref. No.	Part No.	Description			Remark
C49	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C50	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C51	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C53	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C54	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C55	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C56	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V
C57	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C59	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C60	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C61	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C62	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C63	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C64	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C65	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C66	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C67	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C68	1-104-913-11	TANTAL. CHIP	10uF	20%	16V
C70	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C71	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C72	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C73	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C74	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C75	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C76	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C77	1-104-852-11	TANTAL. CHIP	22uF	20%	6.3V
C79	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C82	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C89	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C90	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C91	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C93	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C96	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C101	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C107	1-135-856-11	TANTAL. CHIP	100uF	20%	10V
C108	1-119-751-11	TANTAL. CHIP	22uF	20%	16V
C109	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C110	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C111	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C112	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C114	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C121	1-115-156-11	CERAMIC CHIP	1uF		10V
C122	1-115-156-11	CERAMIC CHIP	1uF		10V
C123	1-115-156-11	CERAMIC CHIP	1uF		10V
C124	1-115-156-11	CERAMIC CHIP	1uF		10V
		< CONNECTOR >			
CN1	1-691-351-11	CONNECTOR, FFC/FPC (ZIF) 13P			
CN2	1-784-342-11	HOUSING, CONNECTOR 2P			
CN3	1-784-342-21	HOUSING, CONNECTOR 2P			
CN4	1-794-501-11	CONNECTOR, FFC/FPC (ZIF) 4P			
* CN6	1-691-368-21	CONNECTOR, FFC/FPC (ZIF) 30P			
		< DIODE >			
D2	6-500-274-01	LED CL-220UBX-TS-A-E			(SIDE ILLUMINATION)
D3	8-719-072-70	DIODE MA2ZD14001S0			
D4	6-500-274-01	LED CL-220UBX-TS-A-E (CD WINDOW)			
D5	6-500-274-01	LED CL-220UBX-TS-A-E (►)			

SERVO

Ref. No.	Part No.	Description	Remark
D6	6-500-274-01	LED CL-220UBX-TS-A-E (OPEN/CLOSE)	
D7	6-500-274-01	LED CL-220UBX-TS-A-E (SIDE ILLUMINATION)	
D8	8-719-801-78	DIODE 1SS184	
D9	8-719-404-50	DIODE MA111-TX	
D14	8-719-083-58	DIODE UDZS-TE-17-3.9B	
D15	8-719-083-58	DIODE UDZS-TE-17-3.9B	
D16	8-719-083-58	DIODE UDZS-TE-17-3.9B	
D17	8-719-083-58	DIODE UDZS-TE-17-3.9B	
D18	8-719-404-50	DIODE MA111-TX	
D19	8-719-404-50	DIODE MA111-TX	
D22	8-719-404-50	DIODE MA111-TX	
D25	8-719-404-50	DIODE MA111-TX	
D26	8-719-404-50	DIODE MA111-TX	
		< FERRITE BEAD >	
FB1	1-500-329-21	INDUCTOR, FERRITE BEAD	
FB2	1-500-329-21	INDUCTOR, FERRITE BEAD	
		< IC >	
IC1	8-752-398-18	IC CXD3027R	
IC2	8-752-089-74	IC CXA2581N-T4	
IC3	8-759-681-42	IC NJM12902V(TE2)	
IC4	6-700-296-01	IC W24L010AT-12-EL15	
IC5	6-700-297-01	IC CXD9684R-004	
IC6	8-759-538-44	IC MSM51V17400D-10	
IC7	8-759-577-33	IC RN5RZ20BA-TR	
IC8	8-759-685-74	IC BH6518FS-E2	
IC9	8-759-594-55	IC TC75S57F(TE85R)	
IC10	8-759-287-60	IC TC7SH08FU-TE85L	
IC11	6-801-781-01	IC HD6432238RWN20TEIV	
IC12	8-759-645-31	IC RN5RZ25BA-TL	
IC13	8-759-287-60	IC TC7SH08FU-TE85L	
IC14	8-759-196-97	IC TC7SH32FU-TE85R	
IC15	8-759-096-87	IC TC7WU04FU(TE12R)	
		< COIL >	
L1	1-414-398-11	INDUCTOR 10uH	
L2	1-414-398-11	INDUCTOR 10uH	
L3	1-414-398-11	INDUCTOR 10uH	
L4	1-412-006-31	INDUCTOR 10uH	
L5	1-414-398-11	INDUCTOR 10uH	
L6	1-414-398-11	INDUCTOR 10uH	
L7	1-412-006-31	INDUCTOR 10uH	
L8	1-414-398-11	INDUCTOR 10uH	
L10	1-400-145-21	INDUCTOR 47uH	
L11	1-469-757-21	INDUCTOR 10uH	
L12	1-400-145-21	INDUCTOR 47uH	
L13	1-400-145-21	INDUCTOR 47uH	
		< TRANSISTOR >	
Q1	8-729-141-48	TRANSISTOR 2SB624-BV345	
Q2	8-729-421-22	TRANSISTOR UN2211	
Q3	8-729-021-94	FET 2SK1657-T1B	
Q5	8-729-421-22	TRANSISTOR UN2211	
Q6	8-729-420-20	TRANSISTOR XN4312	

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R1	1-216-801-11	METAL CHIP	22	5%	1/10W
R2	1-216-801-11	METAL CHIP	22	5%	1/10W
R3	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R4	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R5	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R6	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R7	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R8	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R9	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R10	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R11	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R12	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R13	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R14	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R15	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
R16	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
R17	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R18	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R19	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R20	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R21	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R22	1-218-866-11	METAL CHIP	6.2K	0.5%	1/10W
R23	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R24	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R25	1-216-833-11	METAL CHIP	10K	5%	1/10W
R26	1-216-833-11	METAL CHIP	10K	5%	1/10W
R27	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R28	1-216-841-11	METAL CHIP	47K	5%	1/10W
R29	1-216-833-11	METAL CHIP	10K	5%	1/10W
R30	1-216-833-11	METAL CHIP	10K	5%	1/10W
R31	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R32	1-216-849-11	METAL CHIP	220K	5%	1/10W
R34	1-216-833-11	METAL CHIP	10K	5%	1/10W
R35	1-216-841-11	METAL CHIP	47K	5%	1/10W
R36	1-216-809-11	METAL CHIP	100	5%	1/10W
R38	1-216-839-11	METAL CHIP	33K	5%	1/10W
R41	1-216-839-11	METAL CHIP	33K	5%	1/10W
R43	1-216-839-11	METAL CHIP	33K	5%	1/10W
R44	1-216-833-11	METAL CHIP	10K	5%	1/10W
R45	1-216-851-11	METAL CHIP	330K	5%	1/10W
R46	1-216-857-11	METAL CHIP	1M	5%	1/10W
R47	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R48	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R49	1-216-833-11	METAL CHIP	10K	5%	1/10W
R50	1-216-853-11	METAL CHIP	470K	5%	1/10W
R51	1-216-833-11	METAL CHIP	10K	5%	1/10W
R54	1-216-818-11	METAL CHIP	560	5%	1/10W
R55	1-216-809-11	METAL CHIP	100	5%	1/10W
R56	1-216-837-11	METAL CHIP	22K	5%	1/10W
R58	1-216-837-11	METAL CHIP	22K	5%	1/10W
R59	1-216-845-11	METAL CHIP	100K	5%	1/10W
R60	1-216-845-11	METAL CHIP	100K	5%	1/10W
R61	1-216-809-11	METAL CHIP	100	5%	1/10W
R62	1-216-837-11	METAL CHIP	22K	5%	1/10W
R64	1-216-837-11	METAL CHIP	22K	5%	1/10W
R67	1-216-845-11	METAL CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R68	1-216-857-11	METAL CHIP	1M	5%	1/10W
R69	1-216-814-11	METAL CHIP	270	5%	1/10W
R70	1-216-814-11	METAL CHIP	270	5%	1/10W
R71	1-216-833-11	METAL CHIP	10K	5%	1/10W
R72	1-216-821-11	METAL CHIP	1K	5%	1/10W
R74	1-216-833-11	METAL CHIP	10K	5%	1/10W
R75	1-216-845-11	METAL CHIP	100K	5%	1/10W
R77	1-216-841-11	METAL CHIP	47K	5%	1/10W
R78	1-218-694-11	METAL CHIP	1.2K	0.5%	1/16W
R79	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R81	1-216-845-11	METAL CHIP	100K	5%	1/10W
R82	1-216-845-11	METAL CHIP	100K	5%	1/10W
R83	1-216-845-11	METAL CHIP	100K	5%	1/10W
R84	1-216-845-11	METAL CHIP	100K	5%	1/10W
R85	1-216-845-11	METAL CHIP	100K	5%	1/10W
R86	1-216-845-11	METAL CHIP	100K	5%	1/10W
R87	1-216-845-11	METAL CHIP	100K	5%	1/10W
R88	1-216-845-11	METAL CHIP	100K	5%	1/10W
R89	1-216-845-11	METAL CHIP	100K	5%	1/10W
R90	1-216-845-11	METAL CHIP	100K	5%	1/10W
R91	1-216-845-11	METAL CHIP	100K	5%	1/10W
R92	1-216-845-11	METAL CHIP	100K	5%	1/10W
R93	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R94	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R95	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R96	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R97	1-216-837-11	METAL CHIP	22K	5%	1/10W
R99	1-216-857-11	METAL CHIP	1M	5%	1/10W
R100	1-216-841-11	METAL CHIP	47K	5%	1/10W
R102	1-216-809-11	METAL CHIP	100	5%	1/10W
R104	1-216-809-11	METAL CHIP	100	5%	1/10W
R105	1-216-809-11	METAL CHIP	100	5%	1/10W
R107	1-216-845-11	METAL CHIP	100K	5%	1/10W
R109	1-216-845-11	METAL CHIP	100K	5%	1/10W
R111	1-216-845-11	METAL CHIP	100K	5%	1/10W
R113	1-216-845-11	METAL CHIP	100K	5%	1/10W
R115	1-216-845-11	METAL CHIP	100K	5%	1/10W
R116	1-216-845-11	METAL CHIP	100K	5%	1/10W
R117	1-216-821-11	METAL CHIP	1K	5%	1/10W
R118	1-216-817-11	METAL CHIP	470	5%	1/10W
R119	1-220-397-11	RES-CHIP	4.7M	5%	1/10W
R120	1-216-845-11	METAL CHIP	100K	5%	1/10W
R121	1-216-845-11	METAL CHIP	100K	5%	1/10W
R122	1-216-833-11	METAL CHIP	10K	5%	1/10W
R123	1-216-833-11	METAL CHIP	10K	5%	1/10W
R124	1-216-845-11	METAL CHIP	100K	5%	1/10W
R125	1-216-845-11	METAL CHIP	100K	5%	1/10W
R127	1-216-845-11	METAL CHIP	100K	5%	1/10W
R129	1-216-845-11	METAL CHIP	100K	5%	1/10W
R130	1-216-845-11	METAL CHIP	100K	5%	1/10W
R131	1-216-821-11	METAL CHIP	1K	5%	1/10W
R132	1-216-821-11	METAL CHIP	1K	5%	1/10W
R133	1-216-043-00	RES-CHIP	560	5%	1/10W
R134	1-216-029-00	METAL CHIP	150	5%	1/10W
R135	1-216-029-00	METAL CHIP	150	5%	1/10W
R136	1-216-845-11	METAL CHIP	100K	5%	1/10W
R137	1-216-845-11	METAL CHIP	100K	5%	1/10W
R138	1-216-819-11	METAL CHIP	680	5%	1/10W

Ref. No.	Part No.	Description			Remark
R139	1-216-845-11	METAL CHIP	100K	5%	1/10W
R140	1-216-845-11	METAL CHIP	100K	5%	1/10W
R141	1-216-845-11	METAL CHIP	100K	5%	1/10W
R142	1-216-845-11	METAL CHIP	100K	5%	1/10W
R143	1-216-845-11	METAL CHIP	100K	5%	1/10W
R144	1-216-841-11	METAL CHIP	47K	5%	1/10W
R152	1-216-857-11	METAL CHIP	1M	5%	1/10W
R156	1-216-864-11	METAL CHIP	0	5%	1/10W
R157	1-216-817-11	METAL CHIP	470	5%	1/10W
R158	1-216-817-11	METAL CHIP	470	5%	1/10W
R159	1-216-817-11	METAL CHIP	470	5%	1/10W
R160	1-216-817-11	METAL CHIP	470	5%	1/10W
R162	1-216-817-11	METAL CHIP	470	5%	1/10W
R163	1-216-817-11	METAL CHIP	470	5%	1/10W
R164	1-216-817-11	METAL CHIP	470	5%	1/10W

< SWITCH >

SW1	1-692-088-51	SWITCH, TACTILE (OPEN/CLOSE)
SW2	1-529-565-41	SWITCH, PUSH (1 KEY) (OPEN END)
SW3	1-529-565-41	SWITCH, PUSH (1 KEY) (CLOSE END)
SW4	1-692-088-51	SWITCH, TACTILE (▶)

< VIBRATOR >

X1	1-795-218-21	VIBRATOR, CERAMIC (16.934MHz)
X2	1-795-127-21	VIBRATOR, CERAMIC (12.288MHz)

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	A-3274-407-A	SWITCH BOARD, COMPLETE (including S601,S602)

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MISCELLANEOUS

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156	1-824-096-11	CORD, CONNECTION 4P (AUDIO OUT FRONT/REAR)
312	1-763-734-12	MOTOR FLEXIBLE BOARD
⚠358	X-4952-506-1	RP ASSY, DAX-23E
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A
M1	A-3328-759-A	MOTOR ASSY, TURNTABLE (SPINDLE)
M2	A-3328-627-A	MOTOR ASSY, SLED (SLED)
M3	X-3381-240-1	MOTOR ASSY, LE (LOADING)
M601	A-3315-622-A	MOTOR ASSY (OPEN/CLOSE)

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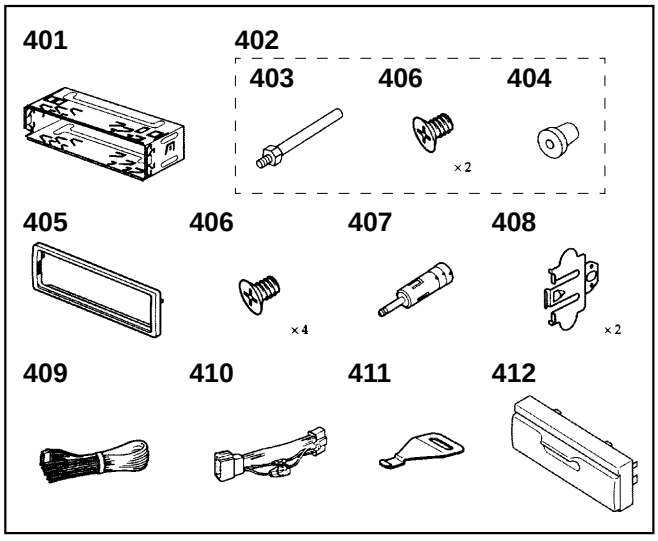
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
		ACCESSORIES	
		**********	
	1-477-261-11	REMOTE COMMANDER (RM-X131) (US,CND)	
	1-477-261-21	REMOTE COMMANDER (RM-X132) (AEP,UK,E)	
	3-230-549-01	LID, BATTERY CASE (for RM-X131/X132)	
	3-242-048-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH, SPANISH) (US,CND)	
	3-242-048-21	MANUAL, INSTRUCTION (ENGLISH, TRADITIONAL CHINESE) (E)	
	3-242-048-31	MANUAL, INSTRUCTION (ENGLISH,GERMAN, FRENCH) (AEP,UK)	
	3-242-048-41	MANUAL, INSTRUCTION (ITALIAN,DUTCH) (AEP,UK)	
	3-242-050-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH,SPANISH) (US,CND)	
	3-242-050-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, TRADITIONAL CHINESE) (E)	
	3-242-050-31	MANUAL, INSTRUCTION, INSTALL (ENGLISH, GERMAN,FRENCH,ITALIAN,DUTCH) (AEP,UK)	
	X-3382-047-1	COVER (PANEL) ASSY (for FRONT PANEL)	
**********			
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
401	3-009-613-21	FRAME	
402	X-3381-154-1	SCREW ASSY (EXP), FITTING (AEP,UK,E)	
403	3-386-828-01	SCREW, FITTING (AEP,UK,E)	
404	3-349-410-11	BUSHING (AEP,UK,E)	
405	3-241-829-01	COLLAR	
406	3-934-325-01	SCREW, +K (5X8) TAPPING	
407	1-465-459-21	ADAPTOR, ANTENNA (AEP,UK)	
408	3-027-138-01	SPRING, FITTING	
409	A-3315-643-A	CORD (U) ASSY, CONNECTOR (US,CND,E)	
410	A-3315-654-A	CORD (EUR) ASSY, CONNECTOR (AEP,UK)	
411	3-048-118-02	KEY	
412	X-3382-047-1	COVER (PANEL) ASSY (for FRONT PANEL)	



MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2002. 04	New